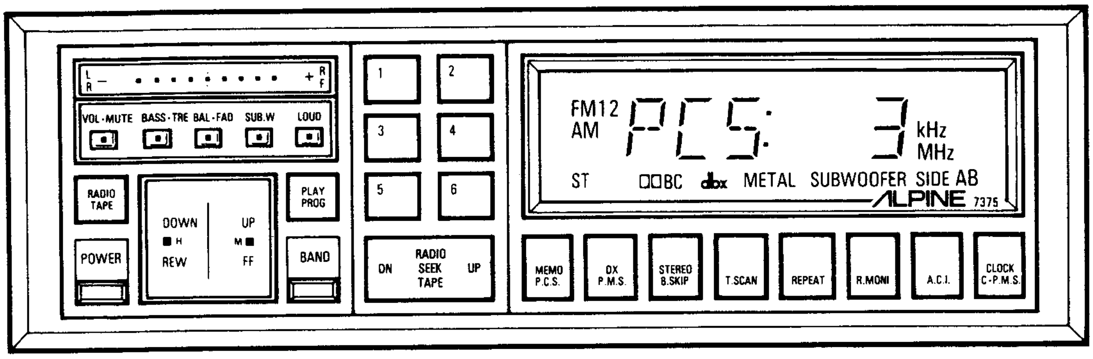
ALPINE **SERVICE MANUAL**

FM/AM Cassette Remote Changer


L R
R F
VOL·MUTE
BASS·TRE
BAL·FAD
SUB.W
LOUD
RADIO TAPE
POWER
DOWN
H
REW
UP
M
FF
PLAY PROG
BAND
1
2
3
4
5
6
ON
RADIO SEEK TAPE
UP
FM12
AM
PCS: 3
kHz
MHz
ST
BC
dbx
METAL
SUBWOOFER
SIDE AB
ALPINE 7375
MEMO P.C.S.
DX P.M.S.
STEREO B.SKIP
T.SCAN
REPEAT
R.MONI
A.C.I.
CLOCK C·P.M.S.

7375/7375E

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Specifications

(7375 Model only)

<FM RADIO>

Frequency Range	87.9 ∿ 107.9 MHz
Usable Sensitivity (MONO, 98.1 MHz)	23.2 dBf
Quieting Sensitivity (MONO 50 dB S/N 98.1 MHz)	26.8 dBf
Signal to Noise Ratio (Stereo)	56 dB
Image Rejection (106.1 MHz)	40 dB
IF Rejection (90.1 MHz)	60 dB
Distortion (98.1 MHz, 1mV)	1%
Frequency Response (–3 dB)	80 ∿ 18,000 Hz
Stereo Separation (1 kHz)	25 dB
Intermediate Frequency	10.7 ±0.1 MHz

<AM RADIO>

Intermediate Frequency	450 kHz
Frequency Range	530 ∿ 1620 kHz
Usable Sensitivity (20 dB S/N, 1000 kHz)	37.2 dBf
Signal to Noise Ratio (1000 kHz)	40 dB
Image Rejection (1400 kHz)	50 dB
IF Rejection (610 kHz)	40 dB
Distortion (1000 kHz)	1.5%
Frequency Response (–6 dB)	120 ∿ 2000 Hz

(7375E Model only)

<FM RADIO>

Intermediate Frequency	10.7 ±0.1 MHz
Frequency Range	87.5 ∿ 108 MHz
Usable Sensitivity (MONO, 98 MHz)	27.2 dBf
Limiting Sensitivity (98 MHz)	21.2 dBf
Signal to Noise Ratio (Stereo)	48 dB
Image Rejection (106.1 MHz)	42 dB
IF Rejection (90 MHz)	60 dB
Distortion (98 MHz, 1mV)	1%
Frequency Response	30 Hz 0 ±3 dB 10 kHz – 12 ±3 dB
Stereo Separation (1 kHz, 1mV)	28 dB

<AM RADIO>

Intermediate Frequency	450 ±5 kHz
Frequency Range	531 ∿ 1602 kHz
Usable Sensitivity (20 dB S/N, 999 kHz)	38.8 dBf
Signal to Noise Ratio (999 kHz)	40 dB
Image Rejection (1404 kHz)	50 dB
IF Rejection (999 kHz)	40 dB
Distortion (1 kHz)	1.5%
Frequency Response (–6 dB)	120 ∿ 2000 Hz

<CASSETTE TAPE PLAYER>

Wow & Flutter (JIS WRMS MTT-111)	0.15%
Tape Speed (MTT-111)	4.76 cm/seconds $^{+3}_{-1}$ %
Signal to Noise	Dolby OFF: 52 dB Dolby B: 60 dB Dolby C: 65 dB DBX: 80 dB
Distortion (MTT-118)	2%
Frequency Response (1 kHz, MTT-256, −3 dB)	50 ∿ 18,000 Hz
Separation (MTT-141)	30 dB
Crosstalk (MTT-121)	40 dB
FF & REW Time (C-60)	100 Seconds

<GENERAL>

Power Supply	DC 14V
Output Power/Impedance	500mV/10K Ω
Semiconductors	50 IC's, 106 Transistor, 78 Diodes, 36 Zener Diodes
Dimension	
Control Unit	Nose Dimension: 176(W) x 50(H) x 8(D) mm Chassis Dimension: 178(W) x 50(H) x 100(D) mm
Trunk Unit	Nose Dimension: 336(W) x 144(H) x 24(D) mm Chassis Dimension: 336(W) x 152(H) x 213(D) mm
Index Unit	109(W) x 71(H) x 12(D) mm
Weight	
Control Unit	0.8 kg
Trunk Unit	6.5 kg
Index Unit	0.15 kg

NOTE: Due to continuing product improvement, specifications and design are subject to change without notice.

Parts Locations and Disassembly Instructions

- **Indash Control Unit**

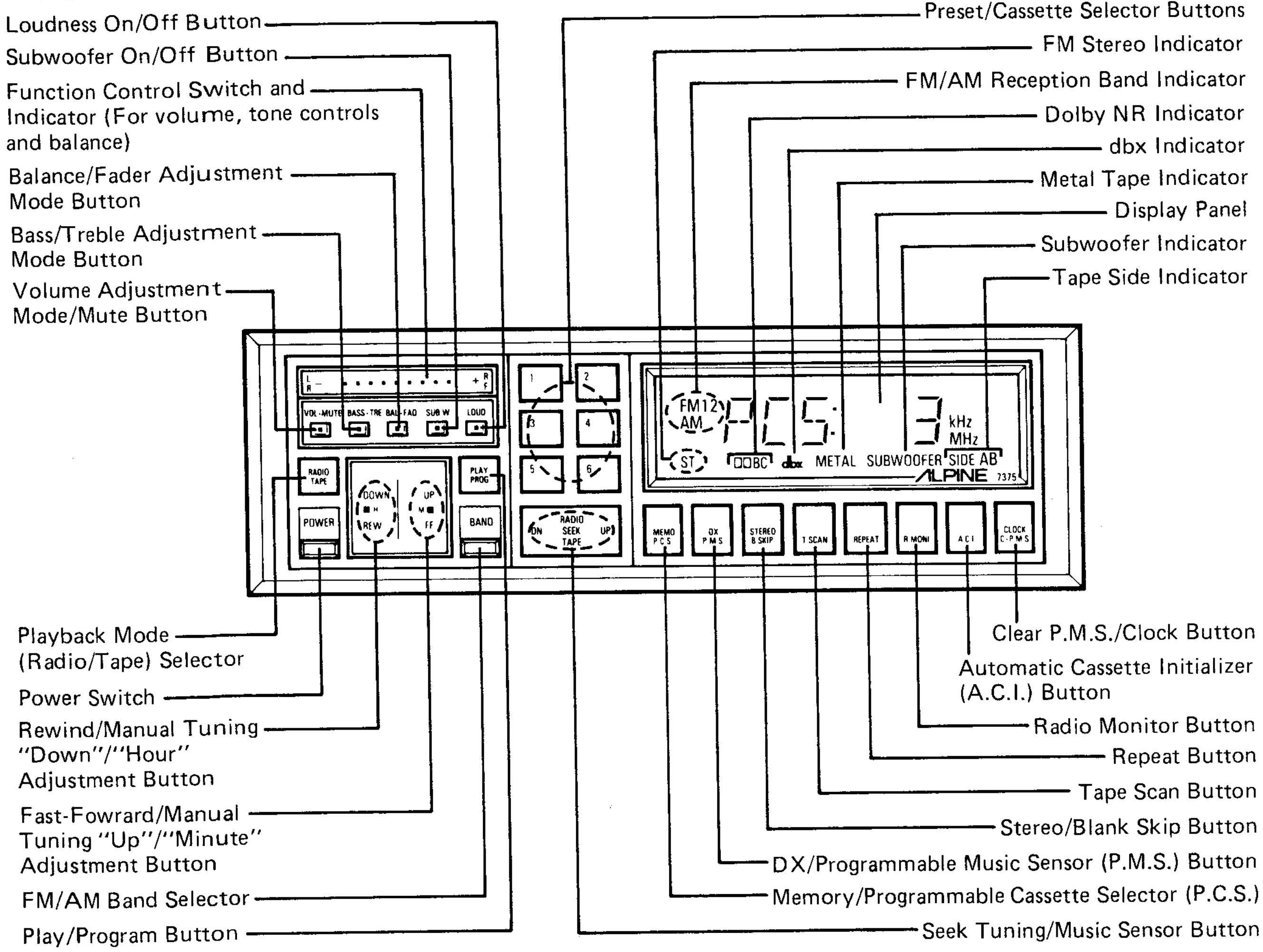

Loudness On/Off Button
Subwoofer On/Off Button
Function Control Switch and Indicator (For volume, tone controls and balance)
Balance/Fader Adjustment Mode Button
Bass/Treble Adjustment Mode Button
Volume Adjustment Mode/Mute Button
Preset/Cassette Selector Buttons
FM Stereo Indicator
FM/AM Reception Band Indicator
Dolby NR Indicator
dbx Indicator
Metal Tape Indicator
Display Panel
Subwoofer Indicator
Tape Side Indicator
Playback Mode (Radio/Tape) Selector
Power Switch
Rewind/Manual Tuning "Down"/"Hour" Adjustment Button
Fast-Fowrard/Manual Tuning "Up"/"Minute" Adjustment Button
FM/AM Band Selector
Play/Program Button
Clear P.M.S./Clock Button
Automatic Cassette Initializer (A.C.I.) Button
Radio Monitor Button
Repeat Button
Tape Scan Button
Stereo/Blank Skip Button
DX/Programmable Music Sensor (P.M.S.) Button
Memory/Programmable Cassette Selector (P.C.S.)
Seek Tuning/Music Sensor Button
ALPINE 7375

Figure 1

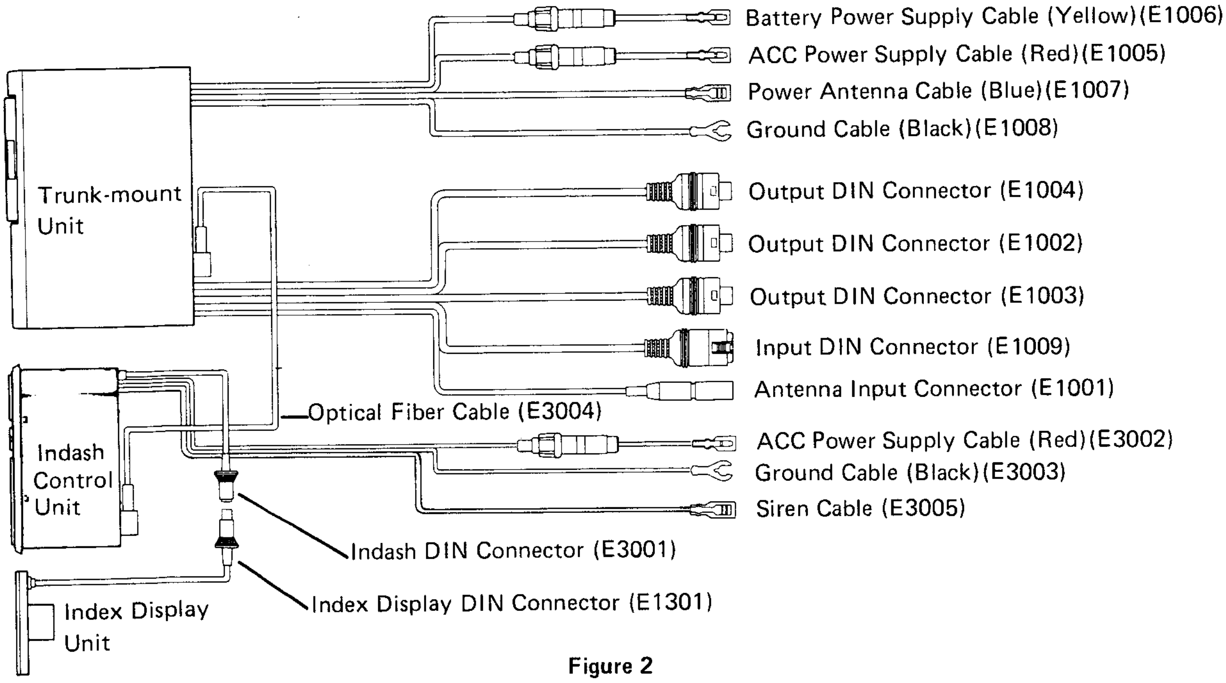

Battery Power Supply Cable (Yellow)(E1006)
ACC Power Supply Cable (Red)(E1005)
Power Antenna Cable (Blue)(E1007)
Ground Cable (Black)(E1008)
Trunk-mount Unit
Output DIN Connector (E1004)
Output DIN Connector (E1002)
Output DIN Connector (E1003)
Input DIN Connector (E1009)
Antenna Input Connector (E1001)
Optical Fiber Cable (E3004)
Indash Control Unit
ACC Power Supply Cable (Red)(E3002)
Ground Cable (Black)(E3003)
Siren Cable (E3005)
Indash DIN Connector (E3001)
Index Display Unit
Index Display DIN Connector (E1301)

Figure 2

- **Trunk-Mount Unit**

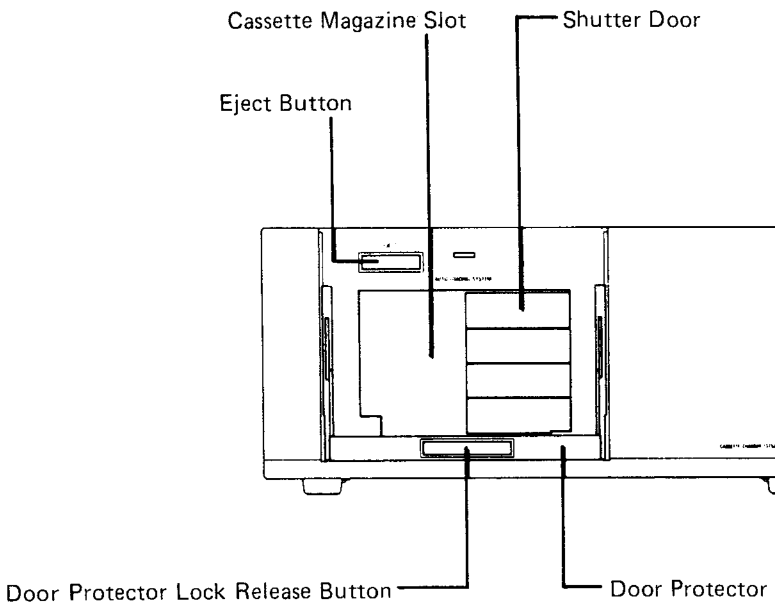

Cassette Magazine Slot
Shutter Door
Eject Button
Door Protector Lock Release Button
Door Protector

Figure 3

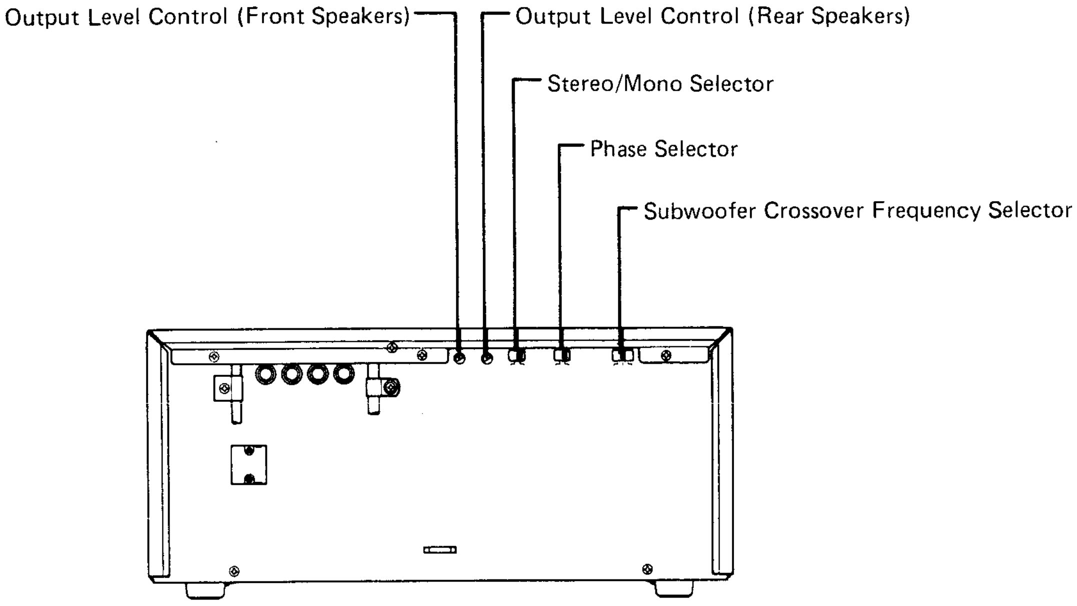

Output Level Control (Front Speakers)
Output Level Control (Rear Speakers)
Stereo/Mono Selector
Phase Selector
Subwoofer Crossover Frequency Selector

Figure 4

<Trunk-Mount Unit>

1. Removal of Top Cover

(1) Remove seven screws marked "A" as shown in Figures 5 and 6.

(2) Pull out the top cover in the arrow direction as shown in Figure 5.

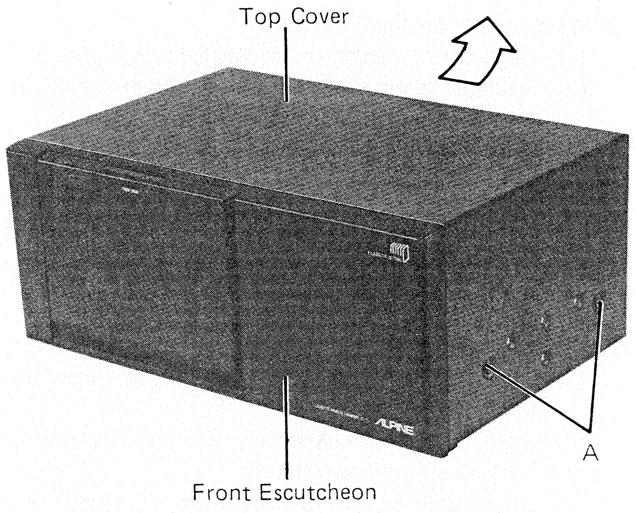


Figure 5

2. Removal of Front Escutcheon

(1) Remove six screws marked "B" as shown in Figures 7 and 8.

(2) Front Escutcheon with Open/Close P.C. Board can be removed completely.

(3) Disconnect one connector from the Open/Close P.C. Board.

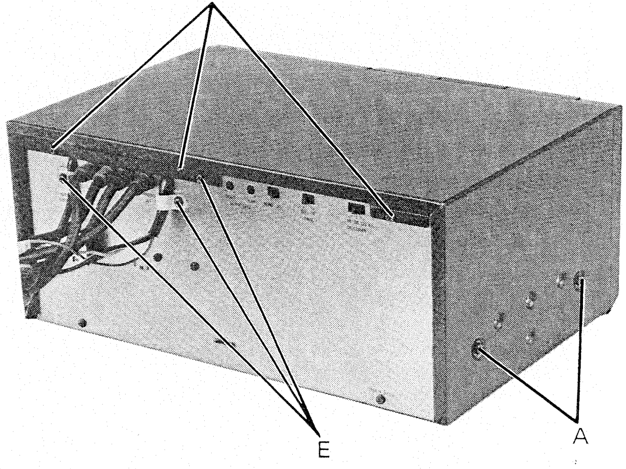


Figure 6

3. Removal of Open/Close P.C. Board

(1) Remove two screws marked "C" as shown in Figure 9.

4. Removal of Bottom Cover

(1) Remove seven screws marked "D" as shown in Figure 7.

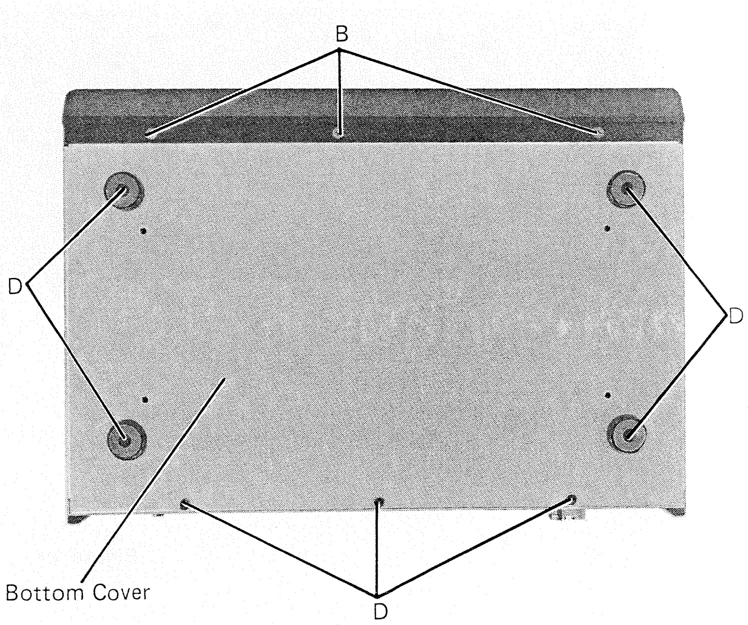


Figure 7

5. Removal of Analog P.C. Board

(1) Disconnect the solders (a) as shown in Figure 8.

(2) Remove eight screws marked "E" as shown in Figures 6 and 8.

(3) Disconnect all wires from the Analog P.C. Board.

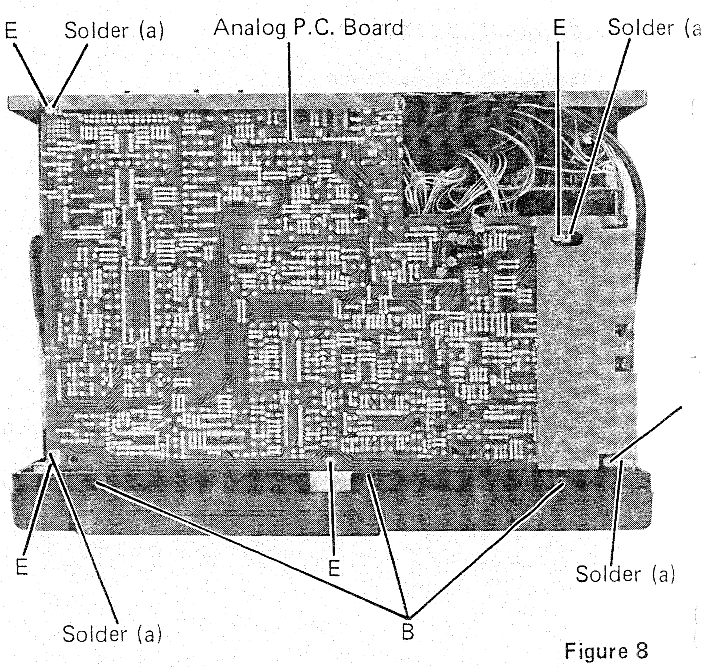

E
Solder (a)
Analog P.C. Board
E
Solder (a
E
E
Solder (a)
Solder (a)
B

Figure 8

6. Remove of Rear Cover

(1) Remove four screws marked "F" as shown in Figure 10.

(2) Rear Cover with Assembly, Optical Receptacle can be removed completely.

(3) Disconnect one connector from the Assembly Optical Receptacle.

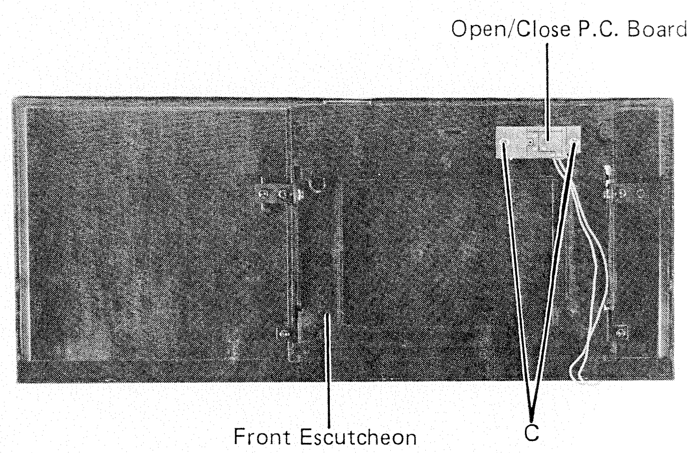

Open/Close P.C. Board
Front Escutcheon
C

Figure 9

7. Removal of Trunk CPU P.C. Board

(1) Remove three screws marked "G" as shown in Figure 11.

(2) Disconnect all connectors from the Trunk CPU P.C. Board.

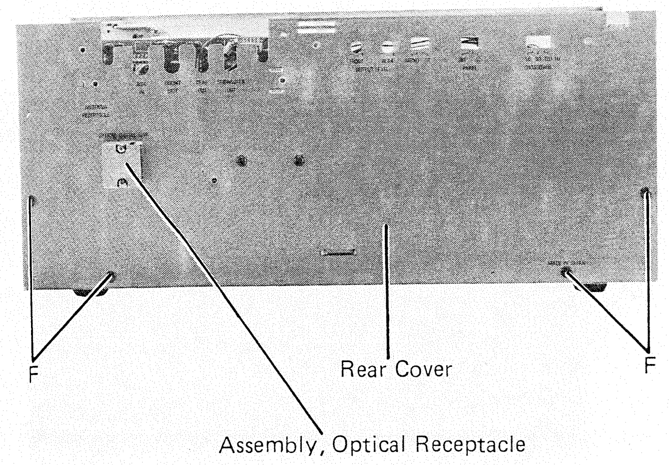

F
Rear Cover
F
Assembly, Optical Receptacle

Figure 10

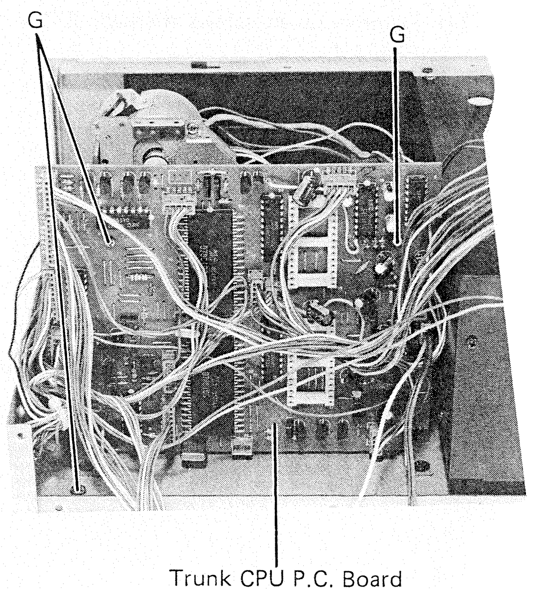

G
G
Trunk CPU P.C. Board

Figure 11

8. Removal of Motor Drive P.C. Board

(1) Remove three screws marked "H" as shown in Figure 12.
(2) Disconnect all connectors from the Motor Drive P.C. Board.

9. Removal of Cassette Deck

(1) Remove four screws marked "I" as shown in Figure 13.
(2) Disconnect one connector from the Cassette Deck.

10. Removal of Front Chassis

(1) Remove four screws marked "J" as shown in Figures 14 and 15.

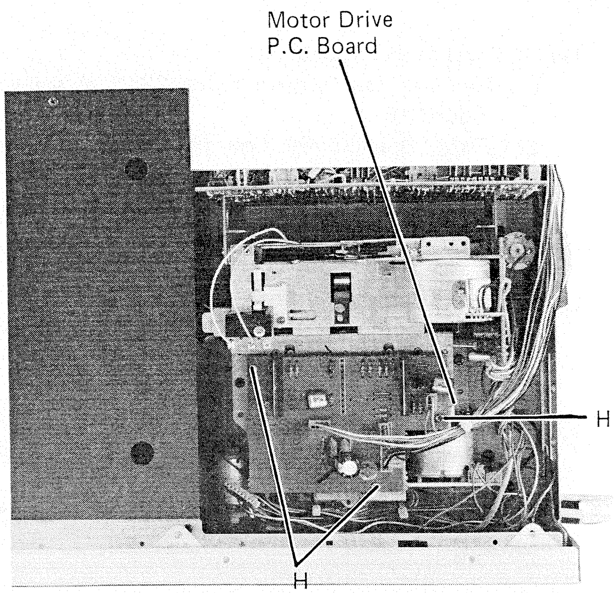

Motor Drive
P.C. Board
H
H

Figure 12

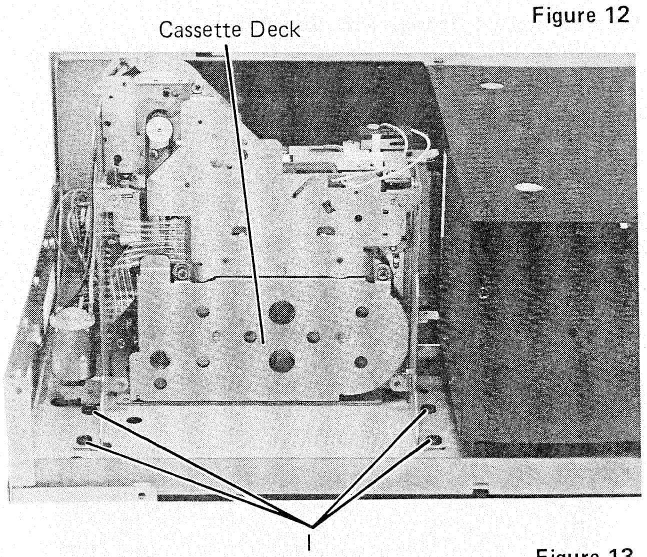

Cassette Deck
I

Figure 13

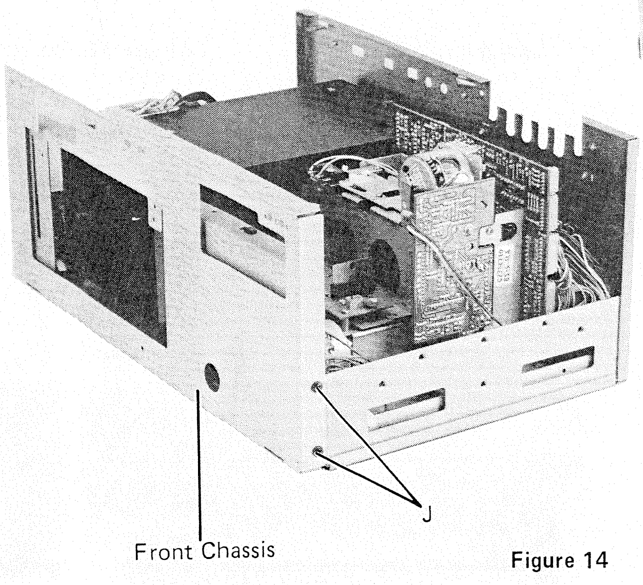

Front Chassis
J

Figure 14

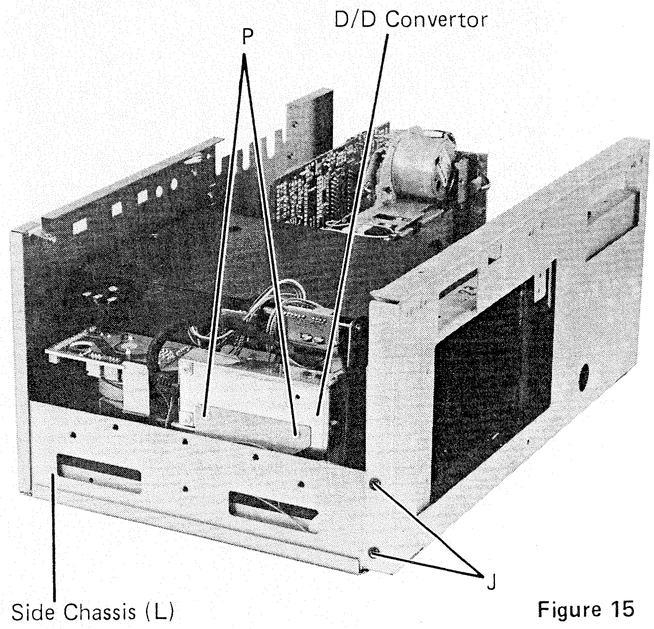

P
D/D Convertor
Side Chassis (L)
J

Figure 15

11. Removal of Front Bracket

(1) Remove four screws marked "K" as shown in Figure 16.

(2) Front Bracket with Changer P.C. Board-2 and -5 can be removed completely.

(3) Disconnect all connectors from the Changer P.C. Board-2 and -5.

12. Removal of Changer P.C. Board-2 and -5

(1) Remove two screws marked "L" as shown in Figure 17.

13. Removal of Changer P.C. Board-6, -8 and -9

(1) Remove three screws marked "L" as shown in Figure 18.

(2) Disconnect all connectors from the each P.C. Board.

14. Removal of Changer P.C. Board-10

(1) Remove two screws marked "L" as shown in Figure 19.

(2) Disconnect all connectors from the P.C. Board.

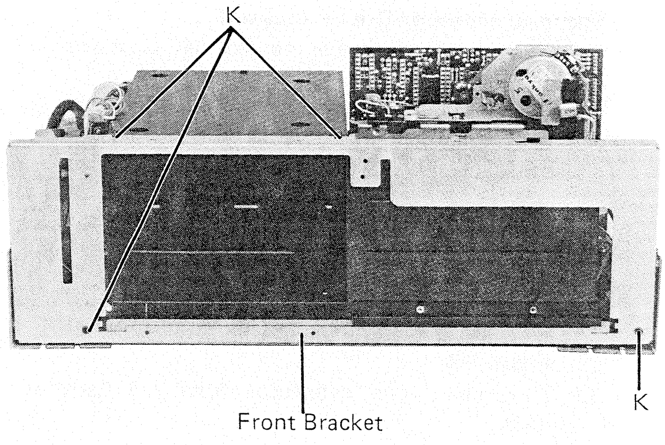

K
Front Bracket
K

Figure 16

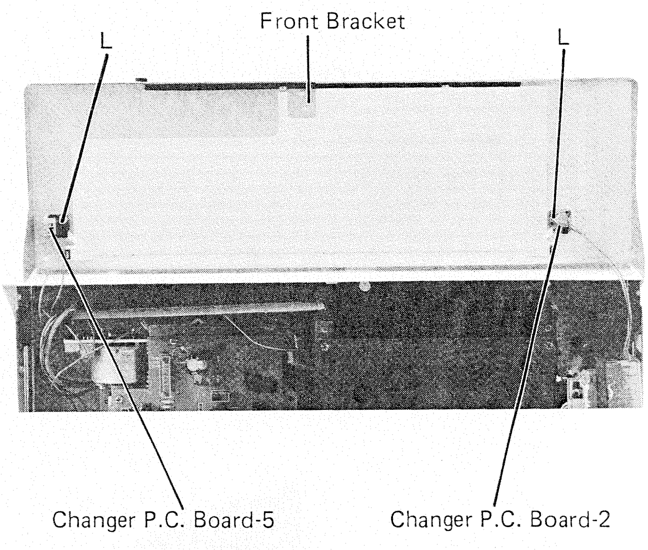

Front Bracket
L
L
Changer P.C. Board-5
Changer P.C. Board-2

Figure 17

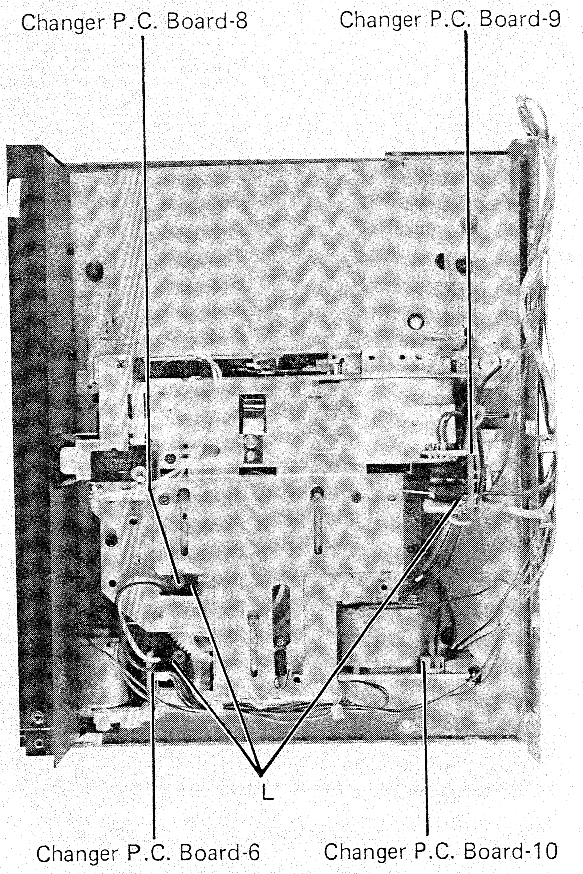

Changer P.C. Board-8
Changer P.C. Board-9
L
Changer P.C. Board-6
Changer P.C. Board-10

Figure 18

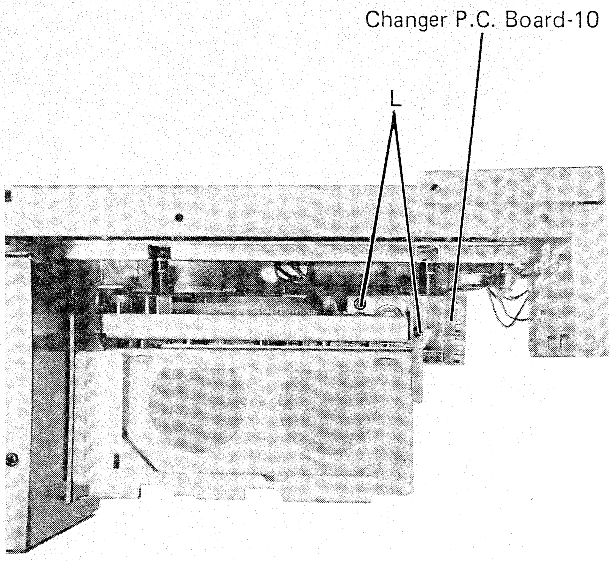

Changer P.C. Board-10
L

Figure 19

15. Removal of Emargency Switch P.C. Board

(1) Remove one screw marked "M" as shown in Figure 20.

(2) Disconnect one connector from the P.C. Board.

16. Removal of Magazine Top Bracket

(1) Remove three screws marked "N" as shown in Figure 20.

17. Removal of Select P.C. Board

(1) Remove two screws marked "O" as shown in Figure 21.

(2) Disconnect one connector from the P.C. Board.

18. Removal of D/D Converter

(1) Remove two screws marked "P" as shown in Figure 15.

19. Removal of Changer P.C. Board-3 and -4

(1) Remove two screws marked "L" as shown in Figures 22 and 23.

(2) Disconnect all connectors from the each P.C. Board.

20. Removal of Side Chassis (L)

(1) Remove two screws marked "Q" as shown in Figure 22.

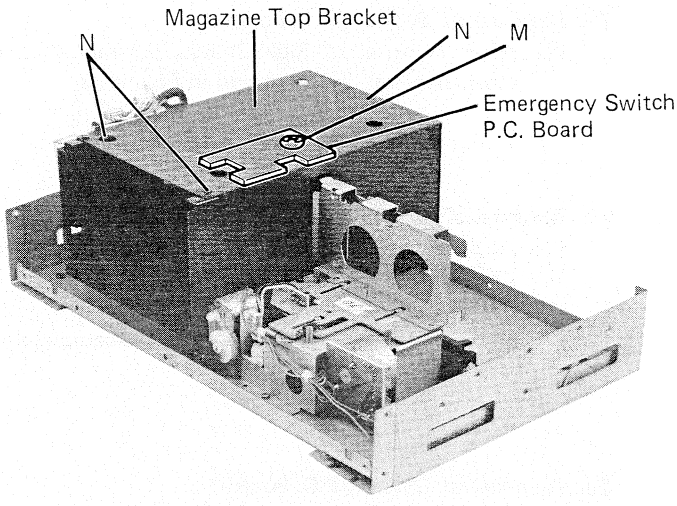

Magazine Top Bracket
N
N
M
Emergency Switch
P.C. Board

Figure 20

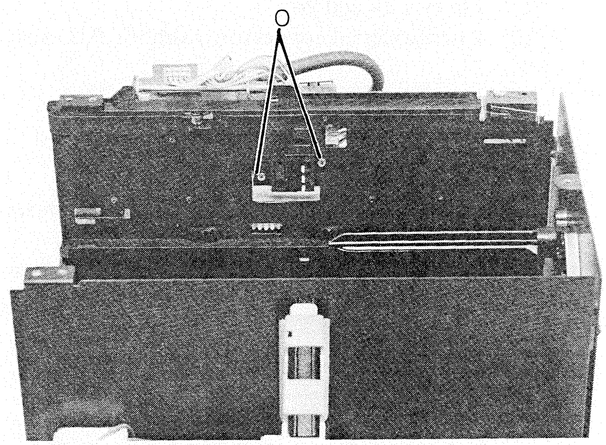


Figure 21

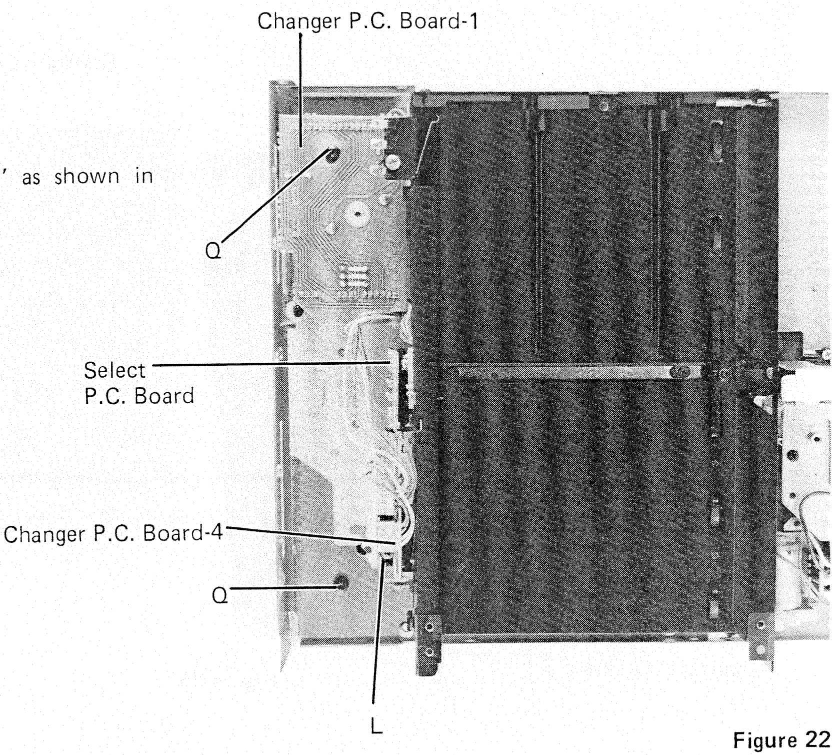

Changer P.C. Board-1
Q
Select
P.C. Board
Changer P.C. Board-4
Q
L

Figure 22

21. Removal of Support D/D Converter

(1) After removal of Side Chassis (L) remove one screw marked "R" as shown in Figure 23.

22. Removal of Assembly, Rivet Bracket Gear Mechanism

(1) After removal of support D/D Conberter, remove three screws marked "S" as shown in Figure 23.

(2) Assembly Rivet Bracket Gear Mechanism with changer P.C. Board-1 can be removed completely.

23. Removal of Changer P.C. Board-1

(1) Remove three screws marked "L" as shown in Figures 23 and 24.

(2) Disconnect all connectors from the P.C. Board.

24. Removal of Changer P.C. Board-7

(1) Remove one screw marked "L" as shown in Figure 25.

(2) Disconnect one connector from the P.C. Board.

25. Removal of HD EQ P.C. Board

(1) Remove two screws marked "T" as shown in Figure 26.

(2) Disconnect one connector from the P.C. Board.

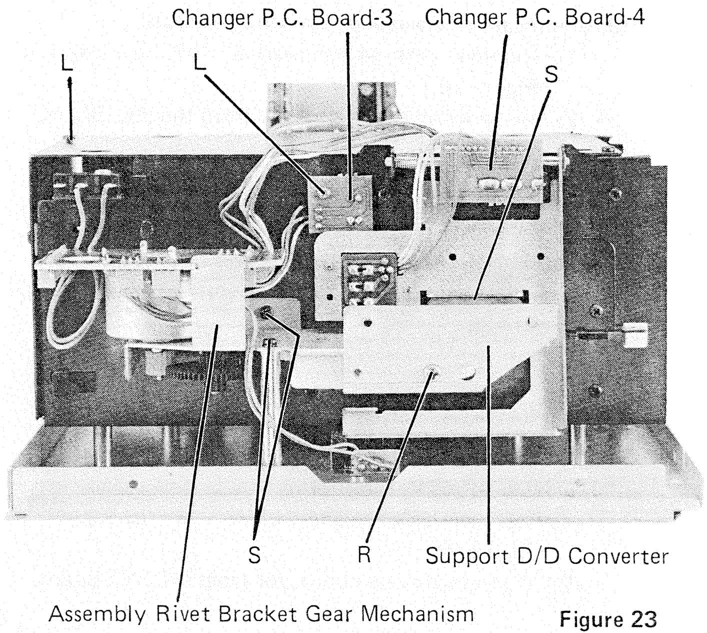

Changer P.C. Board-3
Changer P.C. Board-4
L
L
S
S
R
Support D/D Converter
Assembly Rivet Bracket Gear Mechanism

Figure 23

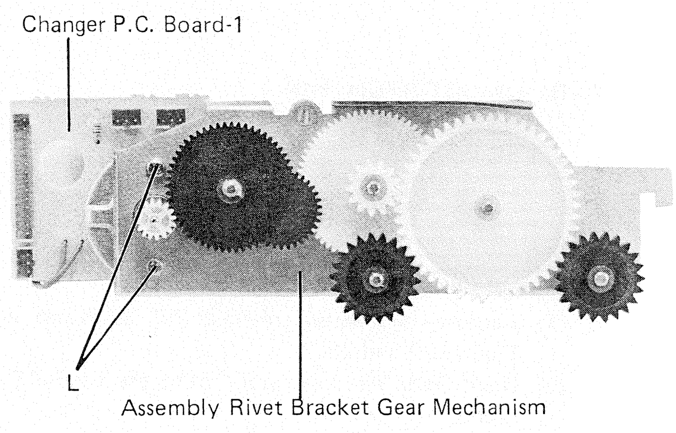

Changer P.C. Board-1
L
Assembly Rivet Bracket Gear Mechanism

Figure 24

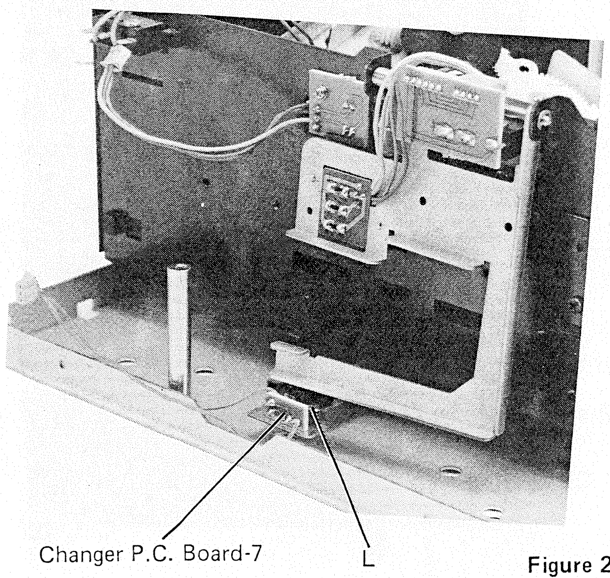

Changer P.C. Board-7
L

Figure 25

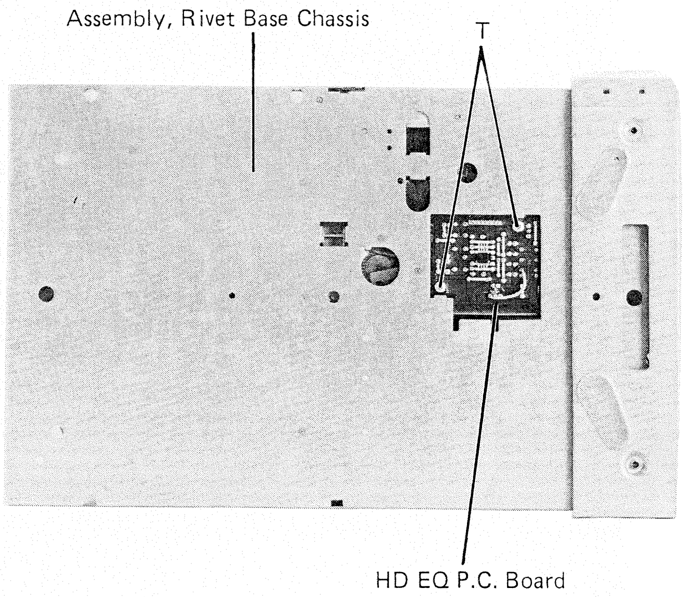

Assembly, Rivet Base Chassis
T
HD EQ P.C. Board

Figure 26

<Indash Control Unit>

26. Removal of Top Cover

(1) Remove two screws marked "A" as shown in Figure 28.

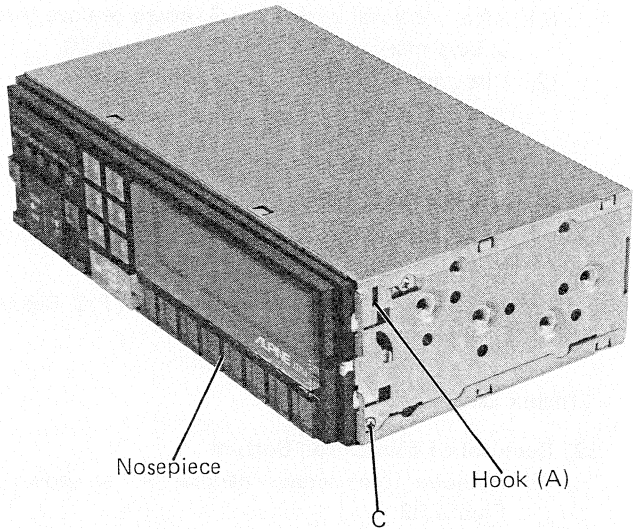

Nosepiece
Hook (A)
C

Figure 27

27. Removal of Bottom Cover

(1) Remove two screws marked "B" as shown in Figure 28.

28. Removal of Nosepiece

(1) After removal of top cover, remove two screws marked "C" and two hooks (A) as shown in Figure 27 and 28.

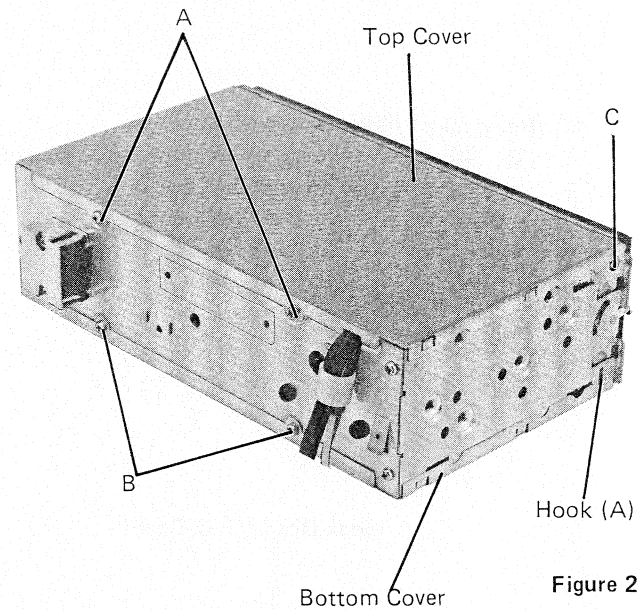

A
Top Cover
C
B
Hook (A)
Bottom Cover

Figure 28

29. Removal of Front P.C. Board

(1) After removal of nosepiece, remove a screw marked "D" as shown in Figure 29.
(2) Remove all solders (a) as shown in Figure 31.
(3) Disconnect parallel wire from the Indash P.C. Board.

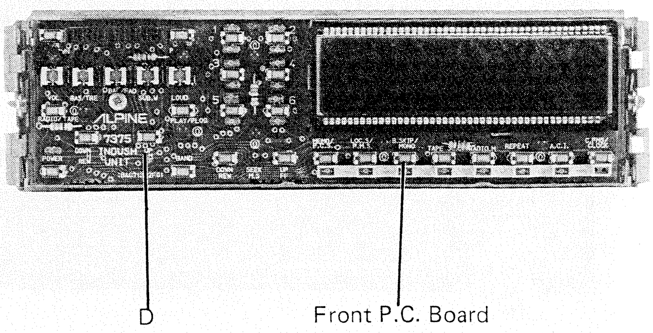

D
Front P.C. Board

Figure 29

30. Removal of LCD Unit

(1) After removal of front P.C. Board remove three screws marked "E" as shown in Figure 30.

(2) Disconnect all wires from the LCD Unit.

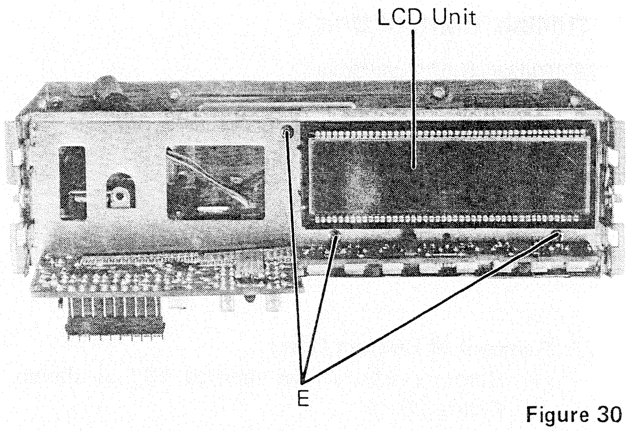


Figure 30

31. Removal of Indash P.C. Board

(1) Remove four screws marked "F" as shown in Figure 31.

(2) Disconnect all wires from the Indash P.C. Board.

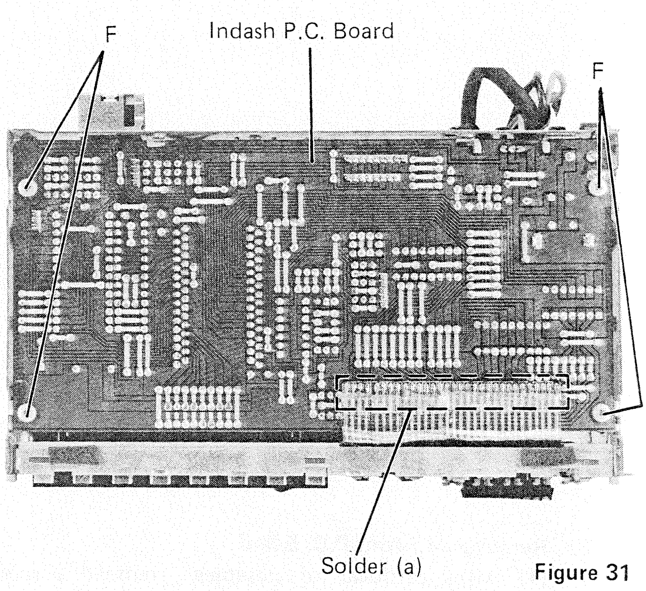

F
Indash P.C. Board
F
Solder (a)

Figure 31

<Index Display>

32. Removal of Escutcheon Bottom

(1) Remove three screws marked "A" as shown in Figure 32.

(2) Escutheon Bottom with Index Display P.C. Board can be removed completely.

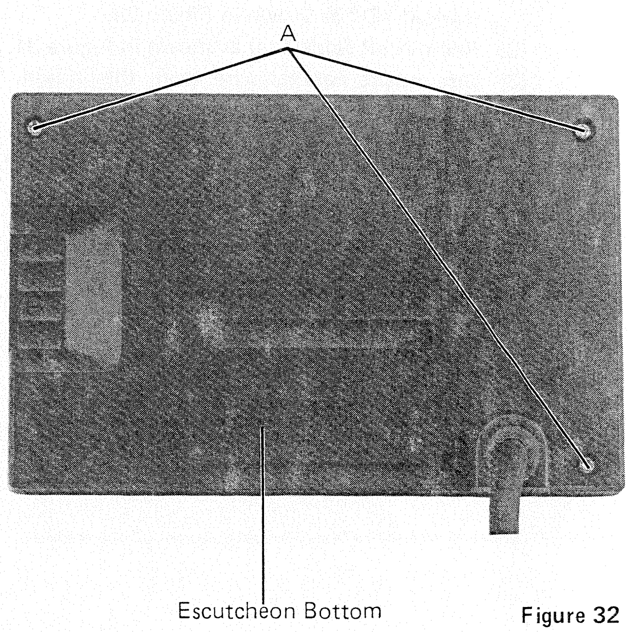

A
Escutcheon Bottom

Figure 32

33. Removal of Index Display P.C. Board

(1) Disconnect all wires from the Index Display P.C. Board as shown in Figure 33.

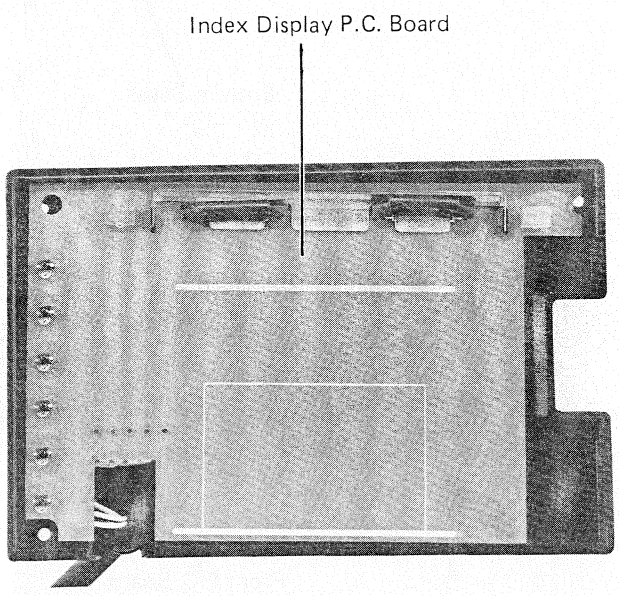

Index Display P.C. Board

Figure 33

Adjustment Procedures

TAPE PLAYER

(1) Connection

Step	A	B
1	TP1 (TP2)	GND
2	TP1 (TP2)	GND
3	TP3	TP4
4	TP5 (TP6)	GND
5	TP1 (TP2)	GND

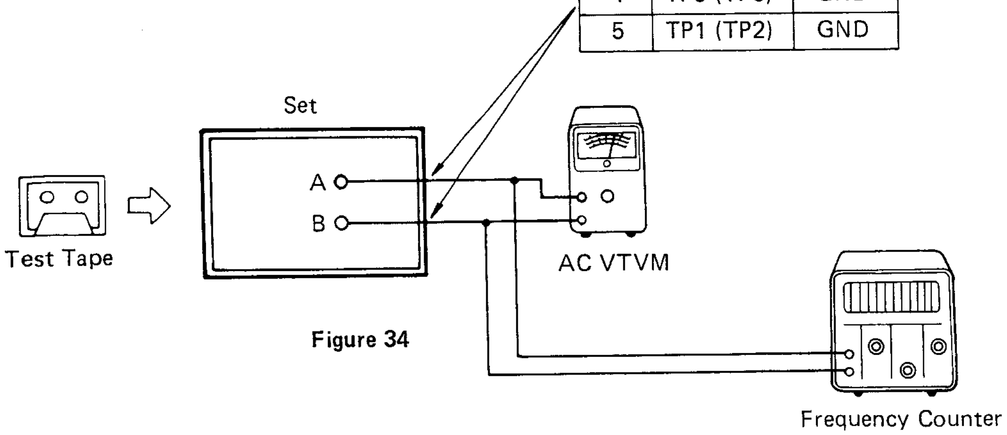


Figure 34

(2) Control Setting

Power Switch	ON
Fader Control	Front position
Balance Control	Electrical center
Treble/Bass Control	Electrical center
Radio/Tape Switch	Tape
Other Switch	OFF

(3) Adjustment Procedure

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114 (10 kHz)	Figure 34	TP1 TP2	Head Azimuth Adjust Screw (Figure 35)	Adjust for Max. and same level output at Normal and Reverse Positions.
2	Dolby Level Adjustment	MTT-150 (400 Hz)	Figure 34	TP1 TP2	VR1352 (L) VR1351 (R)	TP1 (L), TP2 (R) Output for 180mV ±1 dB.
3	dBX Voltage Adjustment	MTT-118	Figure 34	TP3 TP4	VR1303	TP3, TP4 Output for 15mV ±1mV.
4	dBX Output Adjustment	MTT-118	Figure 34	TP5 TP6	VR1302 (L) VR1301 (R)	TP5 (L), TP6 (R) Output for 10mV ±2mV.
5	Tape Speed Adjustment	MTT-111 (3 kHz)	Figure 34	TP1 or TP2	Tape Speed Adjustment Volume (Figure 36)	TP1 (TP2) for 2970 ∿ 3090 Hz.

Adjustment Locations

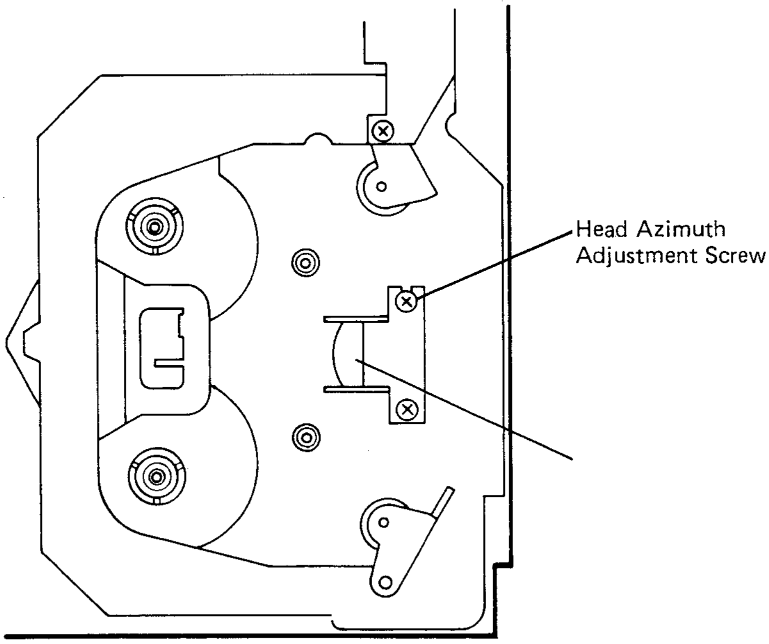

Head Azimuth
Adjustment Screw

Figure 35

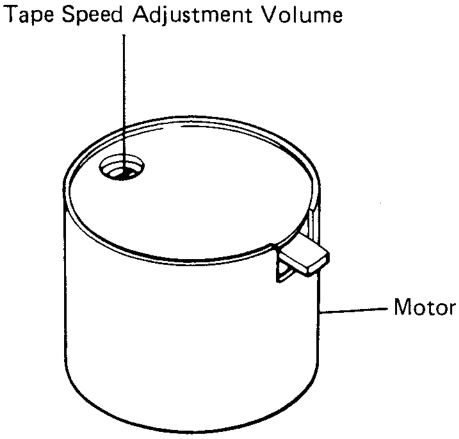
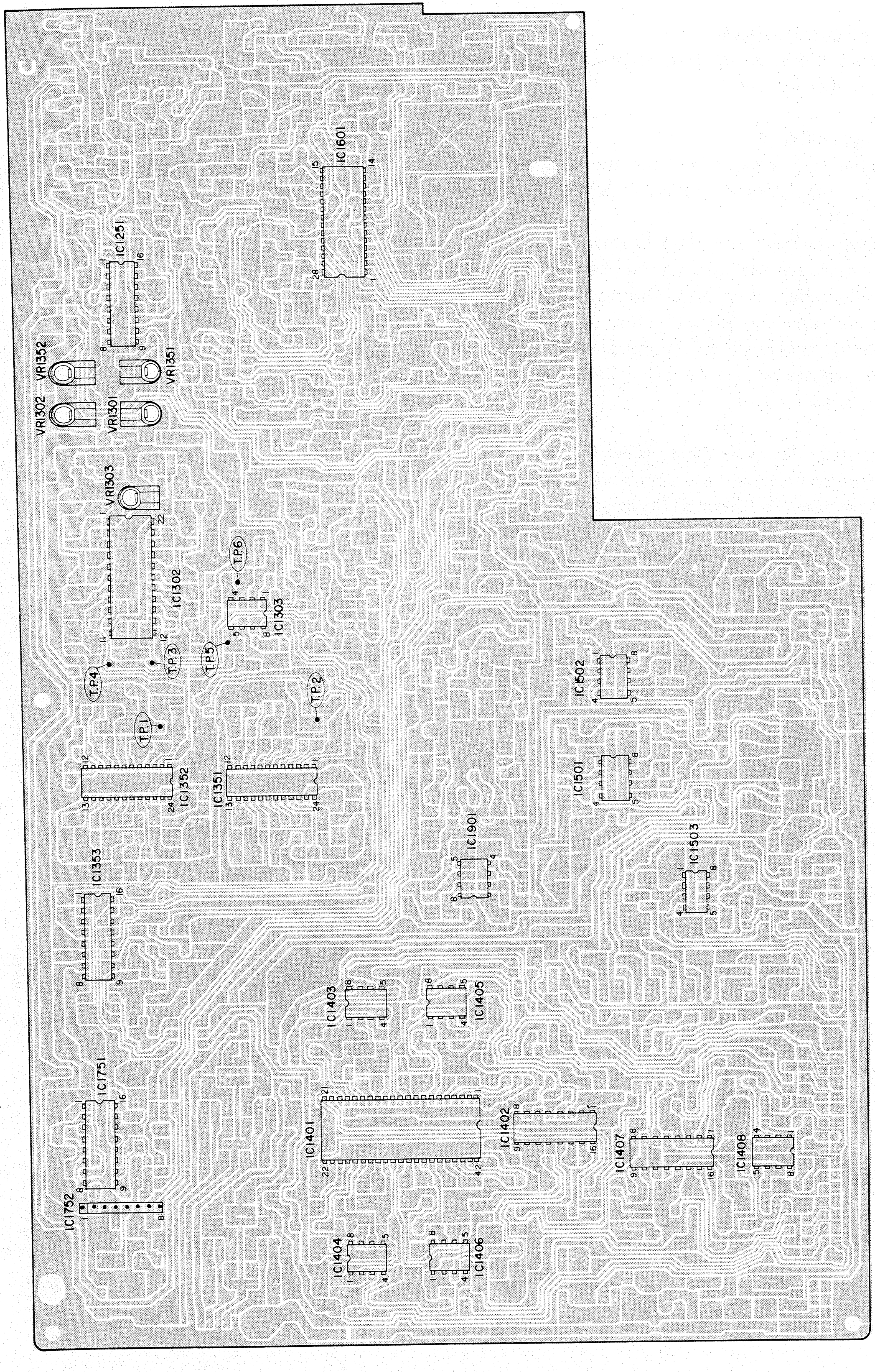

Tape Speed Adjustment Volume
Motor

Figure 36


IC1601
IC1251
VR1352
VR1302
VR1301
VR1351
VR1303
IC1302
IC1303
T.P.6
T.P.5
T.P.4
T.P.3
T.P.2
T.P.1
IC1352
IC1351
IC1502
IC1501
IC1503
IC1901
IC1353
IC1403
IC1405
IC1751
IC1401
IC1402
IC1407
IC1408
IC1752
IC1404
IC1406

- Analog P.C. Board

Replacement of Mechanical Parts

1. Removal of Cassette Deck

(1) Remove the Cassette Deck according to the disassembly instructions.

2. Replacement of Head

(1) Remove two screws " ● " and the head can be removed completely with the P.C. Board as shown in Figure 37.

(2) Remove the head from the P.C. Board.

(3) After replacing the head with the new one, assemble in the reverse way to the disassembly and adjust the head azimuth by using the test tape (MTT-114). (Refer to Adjustment of the Head Azimuth.)

(4) After adjustment, apply lock paint on the adjustment screw to fix it.

3. Replacement of Assembly Pinch Roller (R)/(L)

(1) Remove two screws "▲" as shown in Figure 37.

(2) Remove the " E " ring (R)/(L) and the pinch roller spring (R)/(L) and the assembly pinch roller (R)/(L) can be removed as shown in Figure 37.

(3) After replacing the assembly pinch roller with new one, clean it with absolute alcohol and assemble in the reverse way to disassembly.

(4) After assembly, confirm the tape speed end the wow/flutter with the test tape (MTT-111).

4. Replacement of Motor

(1) Remove 2 screws " ○ " and the belt as shown in Figure 38.

(2) Remove wire leads from the motor side and the motor can be removed.

(3) After replacing the motor with the new one taking care not to damage the gear teeth, assembly in the reverse way to the disassembly.

(4) After assembly, adjust the tape speed with the test tape (MTT-111).

5. Replacement of Belt

(1) Remove two screws " △ " and the Flywheel Mounting bracket Assembly as shown in Figure 38.

(2) After cleaning the new belt with absolute alcohole, assemble it as shown in Figure 39. Assemble the flywheel mounting bracket assembly in the reverse way to the disassembly.

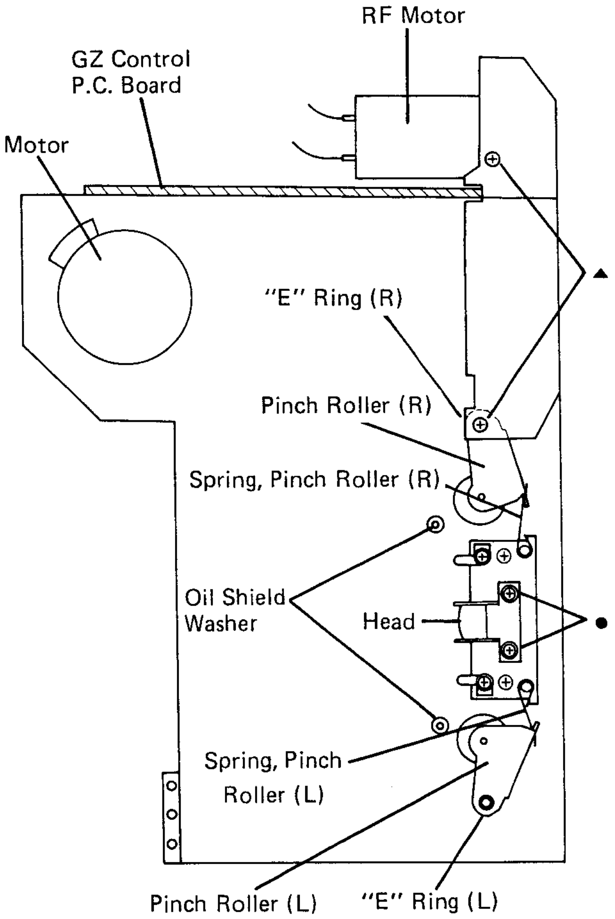

RF Motor
GZ Control P.C. Board
Motor
"E" Ring (R)
▲
Pinch Roller (R)
Spring, Pinch Roller (R)
Oil Shield Washer
Head
●
Spring, Pinch Roller (L)
Pinch Roller (L)
"E" Ring (L)

Figure 37

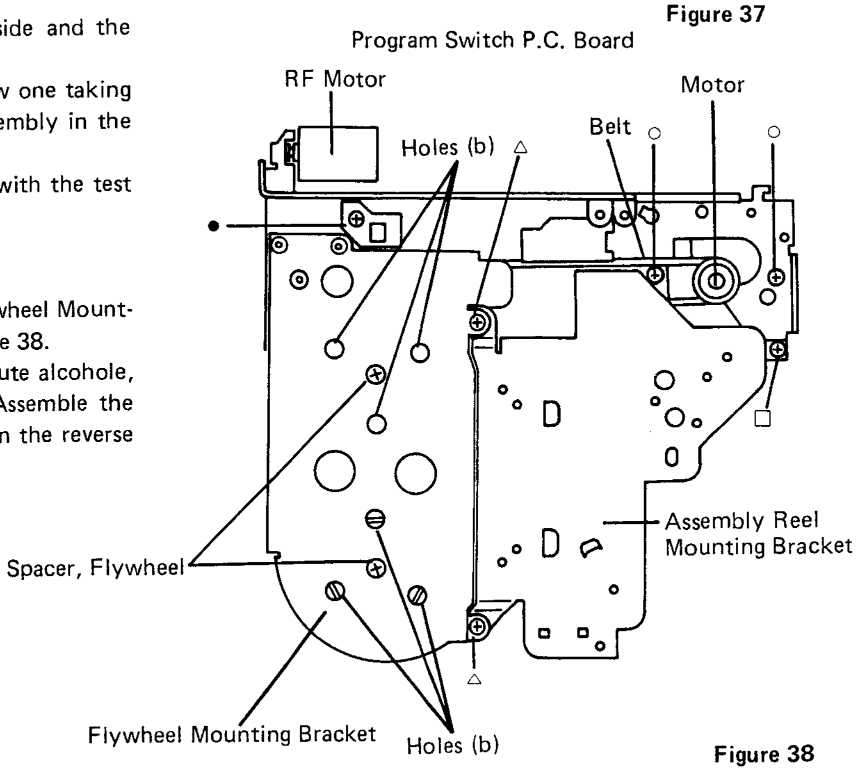

Program Switch P.C. Board
RF Motor
Motor
Belt
○
○
Holes (b)
△
●
Assembly Reel Mounting Bracket
Spacer, Flywheel
△
Flywheel Mounting Bracket
Holes (b)

Figure 38

6. Replacement of Flywheel

(1) Remove the flywheel mounting bracket and the belt.

(2) Pull the flywheel rightly upward and remove it.

Note: Do not lose the oil shield washer on the opposite side of a bearing when removing the flywheel.

(3) Assemble a new flywheel.

Note: Assemble the flywheel washer and provide a drop of "Mobil 1" oil.

(4) Assemble the belt and the flywheel mounting bracket and confirm thrust play of the flywheel shaft by pushing at the end of the flywheel shaft from the side shown in Figure 37 and by pushing the flywheels through the holes (b) on the flywheel mounting bracket.

(5) Then assemble the oil shield washer to the shaft.

(6) After assembly, confirm the tape speed and wow/flutter with the test tape (MTT-111).

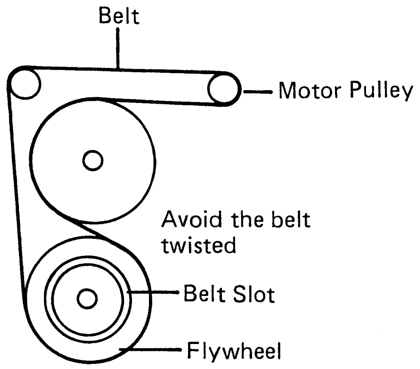


Figure 39

7. Replacement of Reverse P.C. Board and Reel

(1) Remove two flywheels.

(2) Remove one screw " □ " as shown in Figure 38. And the assembly Reel mounting bracket can be removed as shown in Figure 40.

(3) Remove two lock washers " ■ " and the two reels can be removed from the reel mounting bracket as shown in Figure 40.

(4) Disconnect two solders as shown in Figure 40 and all wire leads from the P.C. Board, and the Reverse P.C. Board can be removed from the reel mounting bracket.

(5) Remove a lock washer " △ " and remove the RF solenoid as shown in Figure 40.

(6) After replacing reels or the reverse P.C. Board with new ones, assemble in the reverse way to the disassembly.

(7) After assembly, confirm the tape speed and the wow/flutter with the test tape (MTT-111).

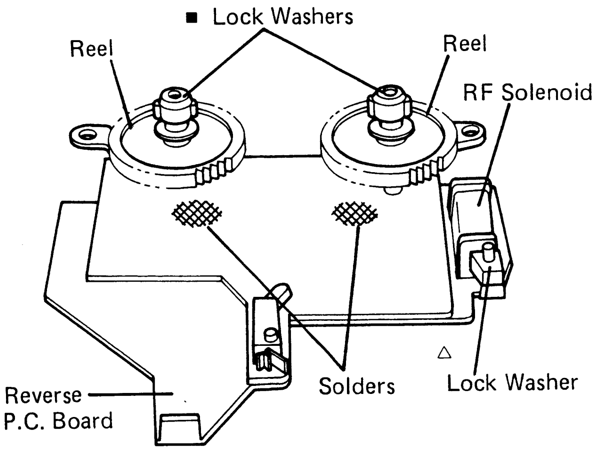


Figure 40

8. Replacement of RF Motor

(1) Remove one screw " ○ " as shown in Figure 41.

(2) Disconnect two wire leads from the motor and the RF motor can be removed.

9. Replacement of GZ Control P.C. Board

(1) Remove the RF Motor.

(2) Disconnect five solders and remove a screw marked " ☆ " as shown in Figure 41.

(3) Disconnect all lead wires from the P.C. Board and the GZ Control P.C. Board will be removed.

(4) Replace the board with a good one and assemble the board in the reverse way.

10. Replacement of Program Switch P.C. Board

(1) Remove the GZ Control P.C. Board.

(2) Remove a screw " ● " as shown in Figure 38 and the Program Switch P.C. Board will be removed.

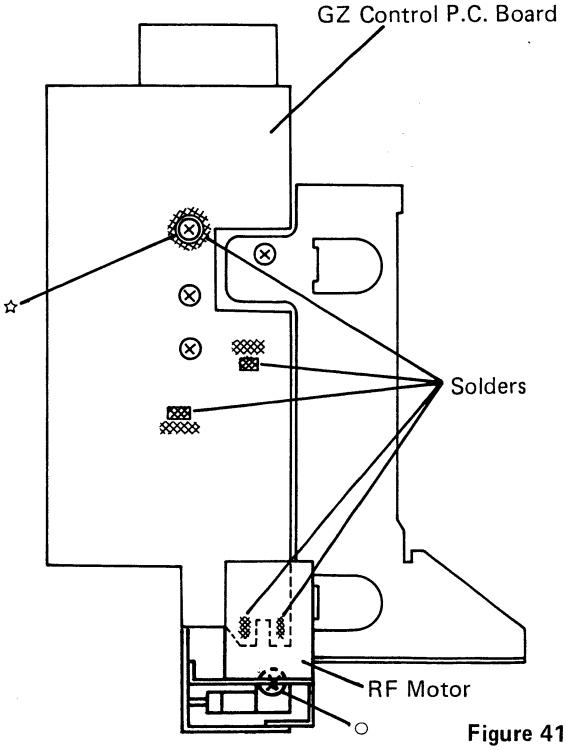
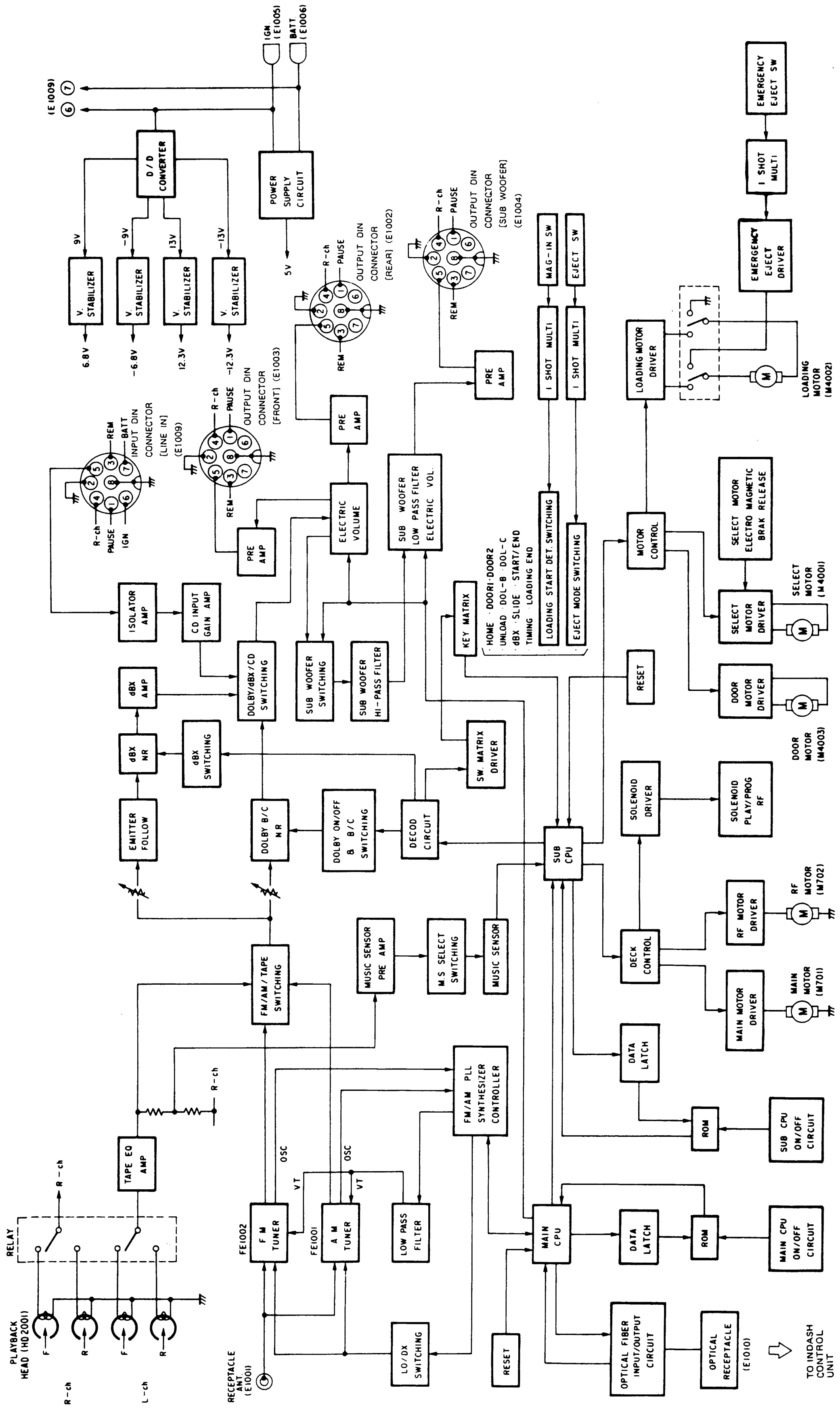
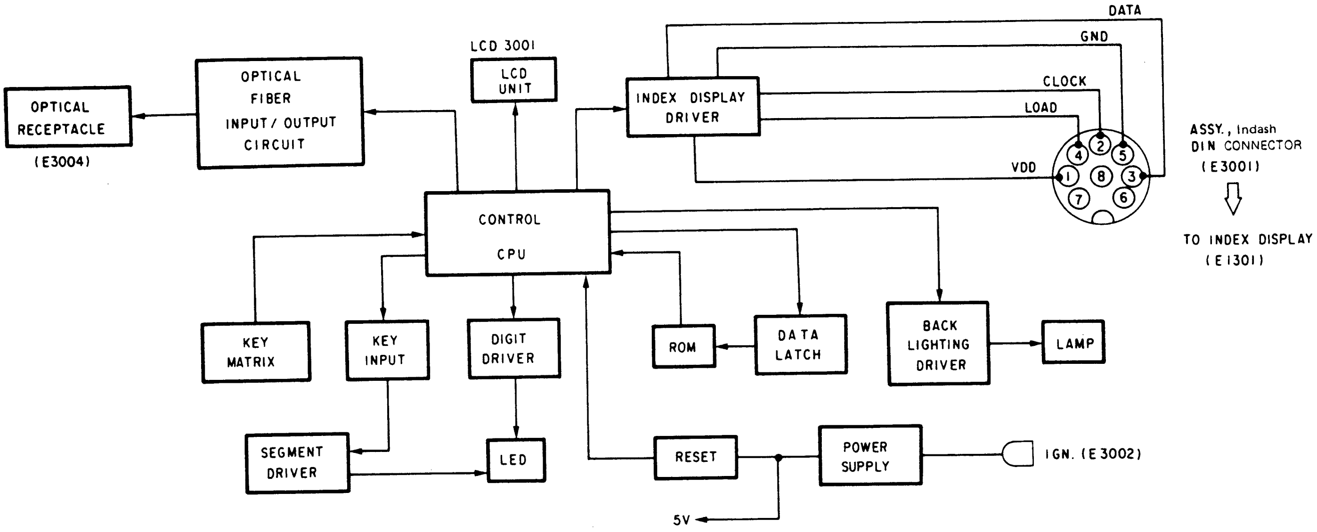


Figure 41

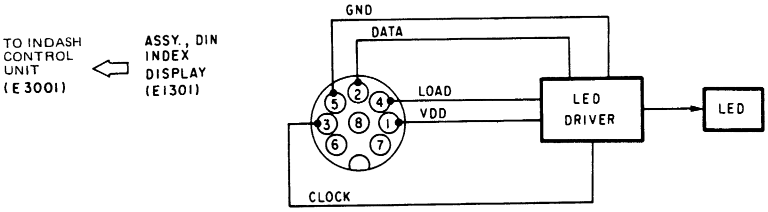
Block Diagram <Trunk-Mount Unit>


IGN (E1005)
BATT (E1006)
(E1009) ⑥ ⑦
D/D CONVERTER
POWER SUPPLY CIRCUIT
5V
9V
−9V
13V
−13V
V. STABILIZER
V. STABILIZER
V. STABILIZER
V. STABILIZER
6.8V
−6.8V
12.3V
−12.3V
R-ch
PAUSE
REM
OUTPUT DIN CONNECTOR [SUB WOOFER] (E1004)
OUTPUT DIN CONNECTOR [REAR] (E1002)
OUTPUT DIN CONNECTOR [FRONT] (E1003)
INPUT DIN CONNECTOR [LINE IN] (E1009)
BATT
IGN
PRE AMP
PRE AMP
PRE AMP
ELECTRIC VOLUME
SUB WOOFER LOW PASS FILTER ELECTRIC VOL.
ISOLATOR AMP
CD INPUT GAIN AMP
DOLBY/dBx/CD SWITCHING
SUB WOOFER SWITCHING
SUB WOOFER HI-PASS FILTER
dBx AMP
dBx NR
dBx SWITCHING
EMITTER FOLLOW
DOLBY B/C NR
DOLBY ON/OFF B B/C SWITCHING
DECOD CIRCUIT
SW. MATRIX DRIVER
KEY MATRIX
· HOME · DOOR1 · DOOR2
· UNLOAD · DOL-B · DOL-C
· dBx · SLIDE · START/END
TIMING · LOADING END
MAG-IN SW
EJECT SW
1 SHOT MULTI
1 SHOT MULTI
LOADING START DET. SWITCHING
EJECT MODE SWITCHING
EMERGENCY EJECT SW
1 SHOT MULTI
EMERGENCY EJECT DRIVER
LOADING MOTOR DRIVER
LOADING MOTOR (M4002)
MOTOR CONTROL
SELECT MOTOR ELECTRO MAGNETIC BRAK RELEASE
SELECT MOTOR DRIVER
SELECT MOTOR (M4001)
DOOR MOTOR DRIVER
DOOR MOTOR (M4003)
RESET
SUB CPU
SOLENOID DRIVER
SOLENOID PLAY/PROG RF
RF MOTOR DRIVER
RF MOTOR (M702)
DECK CONTROL
MAIN MOTOR DRIVER
MAIN MOTOR (M701)
DATA LATCH
ROM
SUB CPU ON/OFF CIRCUIT
MUSIC SENSOR PRE AMP
M S SELECT SWITCHING
MUSIC SENSOR
FM/AM/TAPE SWITCHING
TAPE EQ AMP
R-ch
R-ch
RELAY
PLAYBACK HEAD (HD2001)
F
R
F
R
R-ch
L-ch
FM/AM PLL SYNTHESIZER CONTROLLER
OSC
OSC
VT
VT
FE1002
F M TUNER
FE1001
A M TUNER
LOW PASS FILTER
LO/DX SWITCHING
RECEPTACLE ANT (E1001)
RESET
MAIN CPU
DATA LATCH
ROM
MAIN CPU ON/OFF CIRCUIT
OPTICAL FIBER INPUT/OUTPUT CIRCUIT
OPTICAL RECEPTACLE (E1010)
TO INDASH CONTROL UNIT (E3004)

<Indash Control Unit>

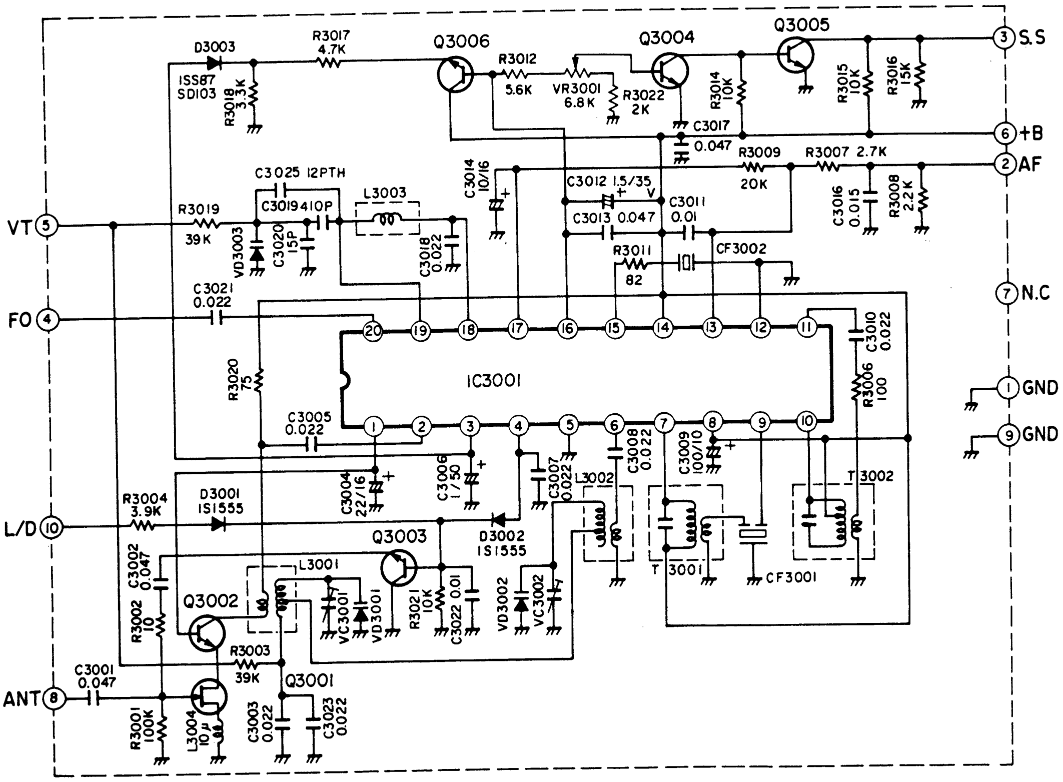

OPTICAL RECEPTACLE
(E3004)
OPTICAL FIBER INPUT/ OUTPUT CIRCUIT
LCD 3001
LCD UNIT
INDEX DISPLAY DRIVER
DATA
GND
CLOCK
LOAD
VDD
ASSY., Indash DIN CONNECTOR (E3001)
TO INDEX DISPLAY (E1301)
CONTROL CPU
KEY MATRIX
KEY INPUT
DIGIT DRIVER
ROM
DATA LATCH
BACK LIGHTING DRIVER
LAMP
SEGMENT DRIVER
LED
RESET
POWER SUPPLY
IGN. (E3002)
5V

<Index Display Unit>


TO INDASH CONTROL UNIT (E3001)
ASSY., DIN INDEX DISPLAY (E1301)
GND
DATA
LOAD
VDD
CLOCK
LED DRIVER
LED

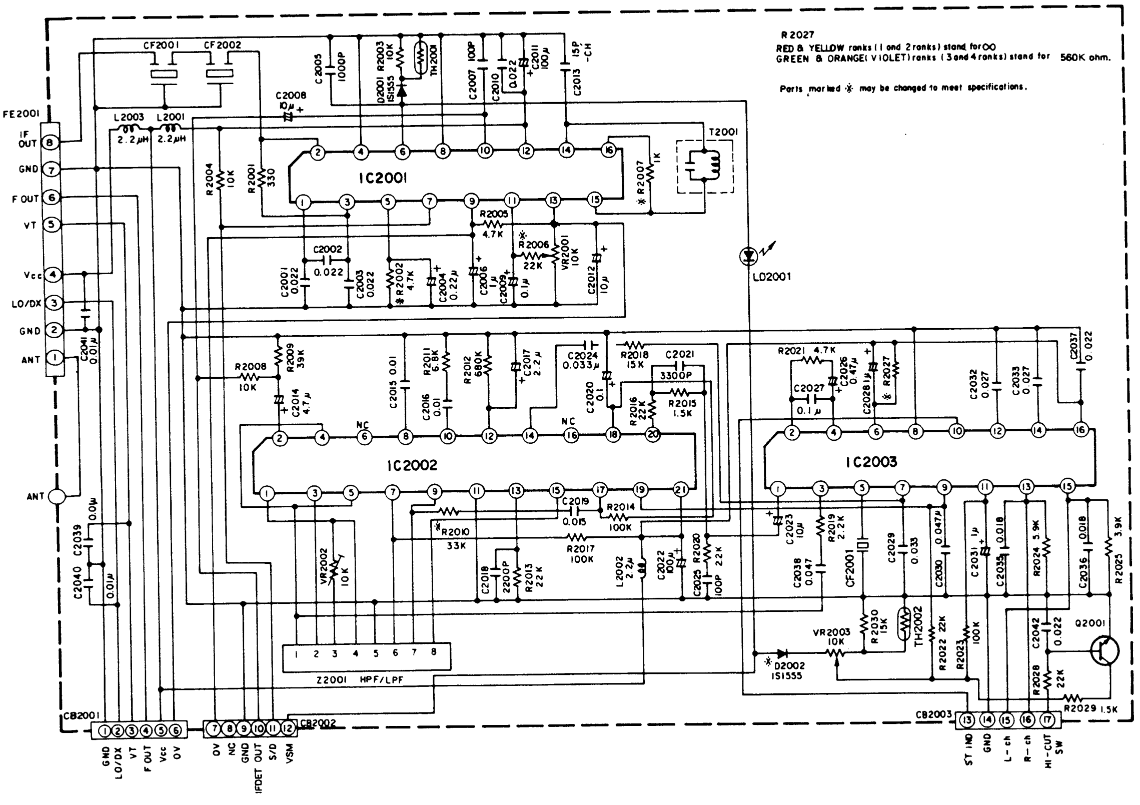
Tuner Schematic Diagram

AM Tuner


S.S
+B
AF
N.C
GND
GND
VT
FO
L/D
ANT
D3003 1SS87 SD103
R3018 3.3K
R3017 4.7K
Q3006
R3012 5.6K
VR3001 6.8K
R3022 2K
Q3004
R3014 10K
Q3005
R3015 10K
R3016 15K
C3017 0.047
R3009 20K
R3007 2.7K
C3016 0.015
R3008 2.2K
C3025 12PTH
C3019 410P
L3003
C3014 10/16
C3012 1.5/35
C3011 0.01
C3013 0.047
R3011 82
CF3002
R3019 39K
VD3003
C3020 15P
C3018 0.022
C3021 0.022
R3020 75
IC3001
C3010 0.022
R3006 100
C3005 0.022
C3004 22/16
C3006 1/50
C3007 0.022
C3008 0.022
C3009 100/10
L3002
T3001
CF3001
T3002
R3004 3.9K
D3001 1S1555
D3002 1S1555
Q3003
L3001
C3002 0.047
R3002 10
Q3002
VC3001
VD3001
R3021 10K
C3022 0.01
VD3002
VC3002
R3003 39K
Q3001
C3001 0.047
R3001 100K
L3004 10μ
C3003 0.022
C3023 0.022

FM Tuner

(7375 model only)

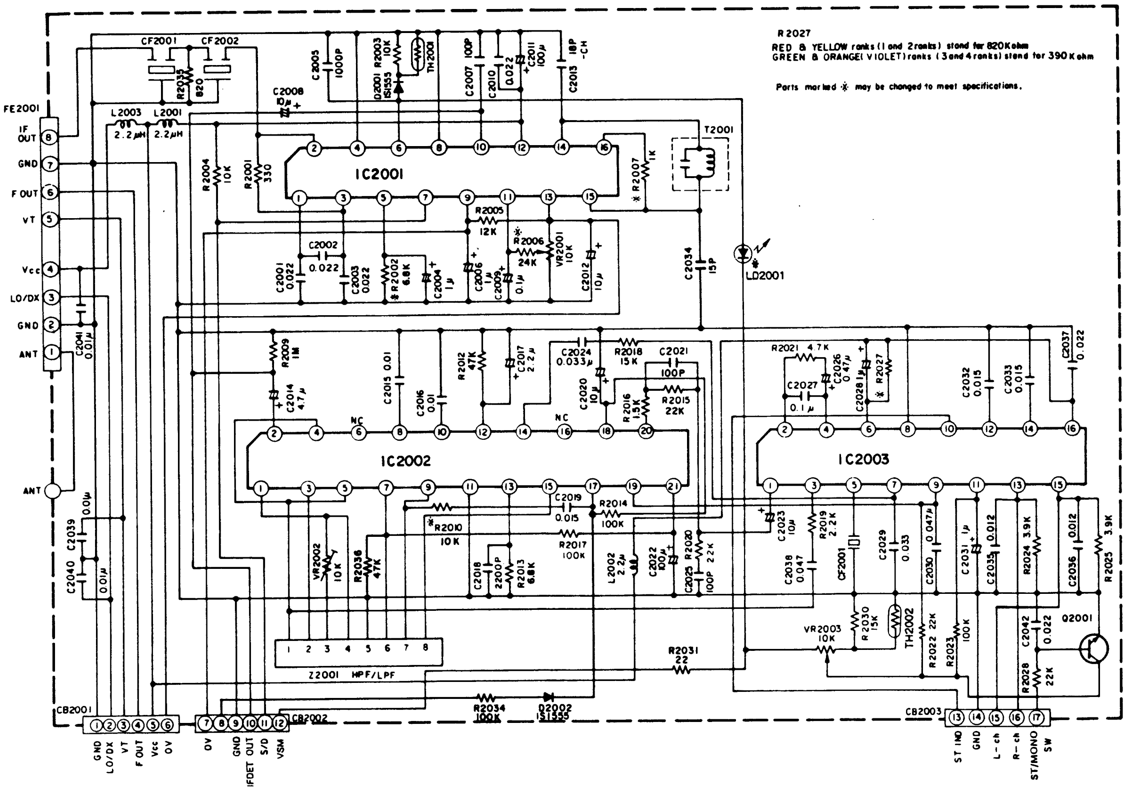


R 2027
RED & YELLOW ranks (1 and 2 ranks) stand for ∞
GREEN & ORANGE(VIOLET) ranks (3 and 4 ranks) stand for 560K ohm.

Parts marked ※ may be changed to meet specifications.

FE2001
IF OUT
GND
F OUT
VT
Vcc
LO/DX
GND
ANT
CF2001
CF2002
L2003 2.2μH
L2001 2.2μH
C2008 10μ
C2005 1000P
D2001 1S1555
R2003 10K
TH2001
C2007 100P
C2010 0.022
C2011 100μ
C2013 15P -CH
R2004 10K
R2001 330
IC2001
R2007 1K
T2001
R2005 4.7K
R2006 22K
VR2001 10K
C2001 0.022
C2002 0.022
C2003 0.022
R2002 4.7K
C2004 0.22μ
C2006 1μ
C2009 0.1μ
C2012 10μ
LD2001
C2041 0.01μ
R2008 10K
R2009 39K
C2014 4.7μ
C2015 0.01
R2011 6.8K
C2016 0.01
R2012 680K
C2017 2.2μ
C2024 0.033μ
R2018 15K
C2021 3300P
C2020 0.1
R2016 22K
R2015 1.5K
NC
IC2002
C2019 0.015
R2014 100K
R2010 33K
R2017 100K
VR2002 10K
C2018 2200P
R2013 22K
L2002 2.2μ
C2022 100μ
R2020 22K
C2025 100P
Z2001 HPF/LPF
1 2 3 4 5 6 7 8
R2021 4.7K
C2026 0.47μ
C2027 0.1μ
C2028 1μ
R2027
C2032 0.027
C2033 0.027
C2037 0.022
IC2003
C2023 10μ
R2019 2.2K
C2038 0.047
CF2001
C2029 0.033
C2030 0.047μ
C2031 1μ
C2035 0.018
R2024 3.9K
C2036 0.018
R2025 3.9K
VR2003 10K
R2030 15K
TH2002
R2022 22K
R2023 100K
C2042 0.022
R2028 22K
Q2001
R2029 1.5K
D2002 1S1555
ANT
C2039 0.01μ
C2040 0.01μ
CB2001
CB2002
CB2003
GND
LO/DX
VT
F OUT
Vcc
0V
0V
NC
GND
IFDET OUT
S/D
VSM
ST IND
GND
L-ch
R-ch
HI-CUT SW

(7375E model only)

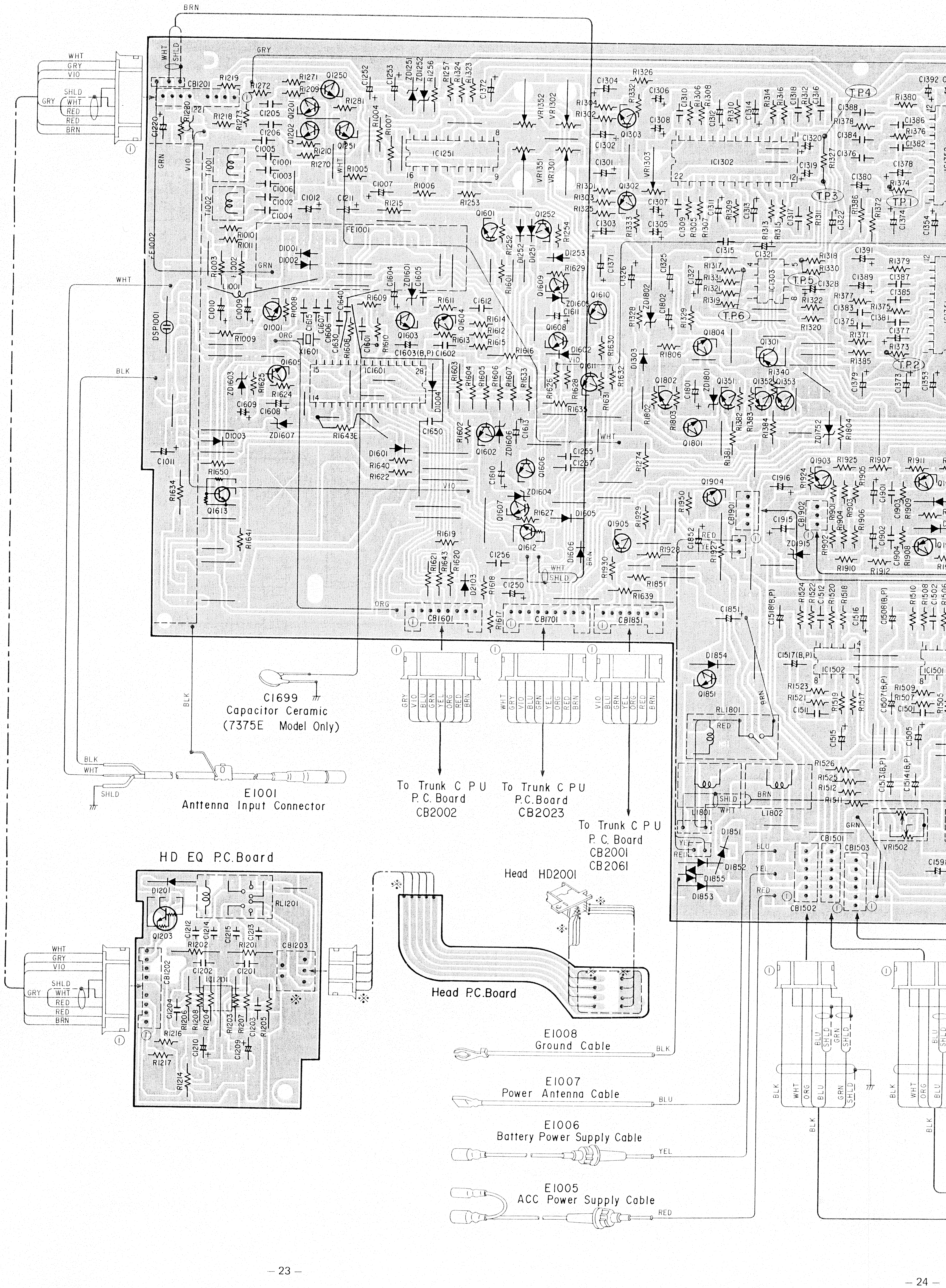


R 2027
RED & YELLOW ranks (1 and 2 ranks) stand for 820K ohm
GREEN & ORANGE(VIOLET) ranks (3 and 4 ranks) stand for 390 K ohm

Parts marked ※ may be changed to meet specifications.

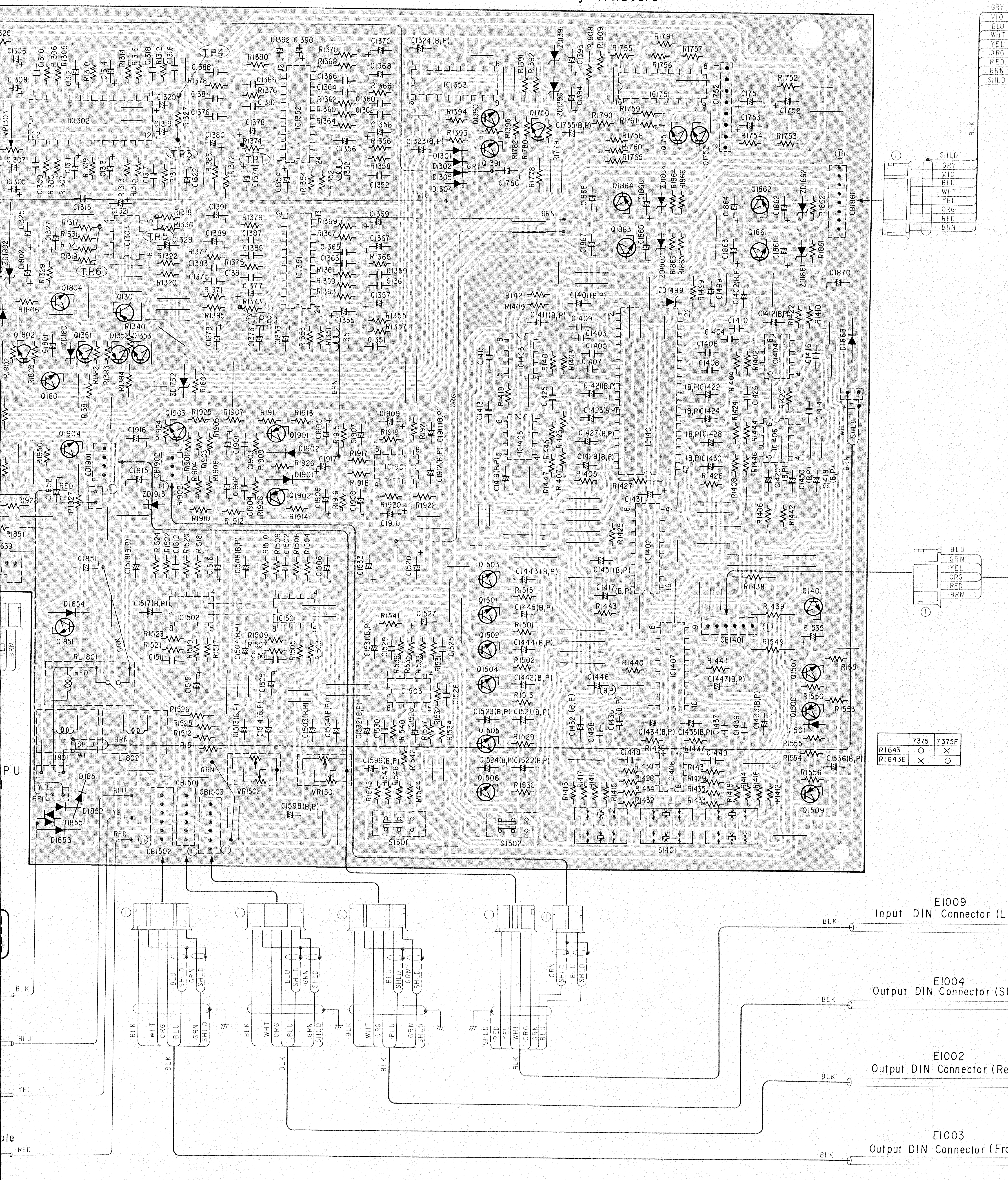
FE2001
IF OUT
GND
F OUT
VT
Vcc
LO/DX
GND
ANT
CF2001
CF2002
R2035 820
L2003 2.2μH
L2001 2.2μH
C2008 10μ
C2005 1000P
D2001 1S1555
R2003 10K
TH2001
C2007 100P
C2010 0.022
C2011 100μ
C2013 18P -CH
R2004 10K
R2001 330
IC2001
R2007 1K
T2001
R2005 12K
R2006 24K
VR2001 10K
C2001 0.022
C2002 0.022
C2003 0.022
R2002 6.8K
C2004 1μ
C2006 1μ
C2009 0.1μ
C2012 10μ
C2034 15P
LD2001
C2041 0.01μ
R2009 1M
C2014 4.7μ
C2015 0.01
C2016 0.01
R2012 47K
C2017 2.2μ
C2024 0.033μ
R2018 15K
C2021 100P
C2020 10μ
R2016 1.5K
R2015 22K
NC
IC2002
C2019 0.015
R2014 100K
R2010 10K
R2017 100K
VR2002 10K
R2036 47K
C2018 2200P
R2013 6.8K
L2002 2.2μ
C2022 100μ
R2020 2.2K
C2025 100P
Z2001 HPF/LPF
1 2 3 4 5 6 7 8
R2031 22
R2034 100K
D2002 1S1555
R2021 4.7K
C2026 0.47μ
C2027 0.1μ
C2028 1μ
R2027
C2032 0.015
C2033 0.015
C2037 0.022
IC2003
C2023 10μ
R2019 2.2K
C2038 0.047
CF2001
C2029 0.033
C2030 0.047μ
C2031 1μ
C2035 0.012
R2024 3.9K
C2036 0.012
R2025 3.9K
VR2003 10K
R2030 15K
TH2002
R2022 22K
R2023 100K
C2042 0.022
R2028 22K
Q2001
ANT
C2039 0.01μ
C2040 0.01μ
CB2001
CB2002
CB2003
GND
LO/DX
VT
F OUT
Vcc
0V
0V
NC
GND
IFDET OUT
S/D
VSM
ST IND
GND
L-ch
R-ch
ST/MONO SW

Parts Layout on P.C. Boards and Wiring Diagram (1/3)

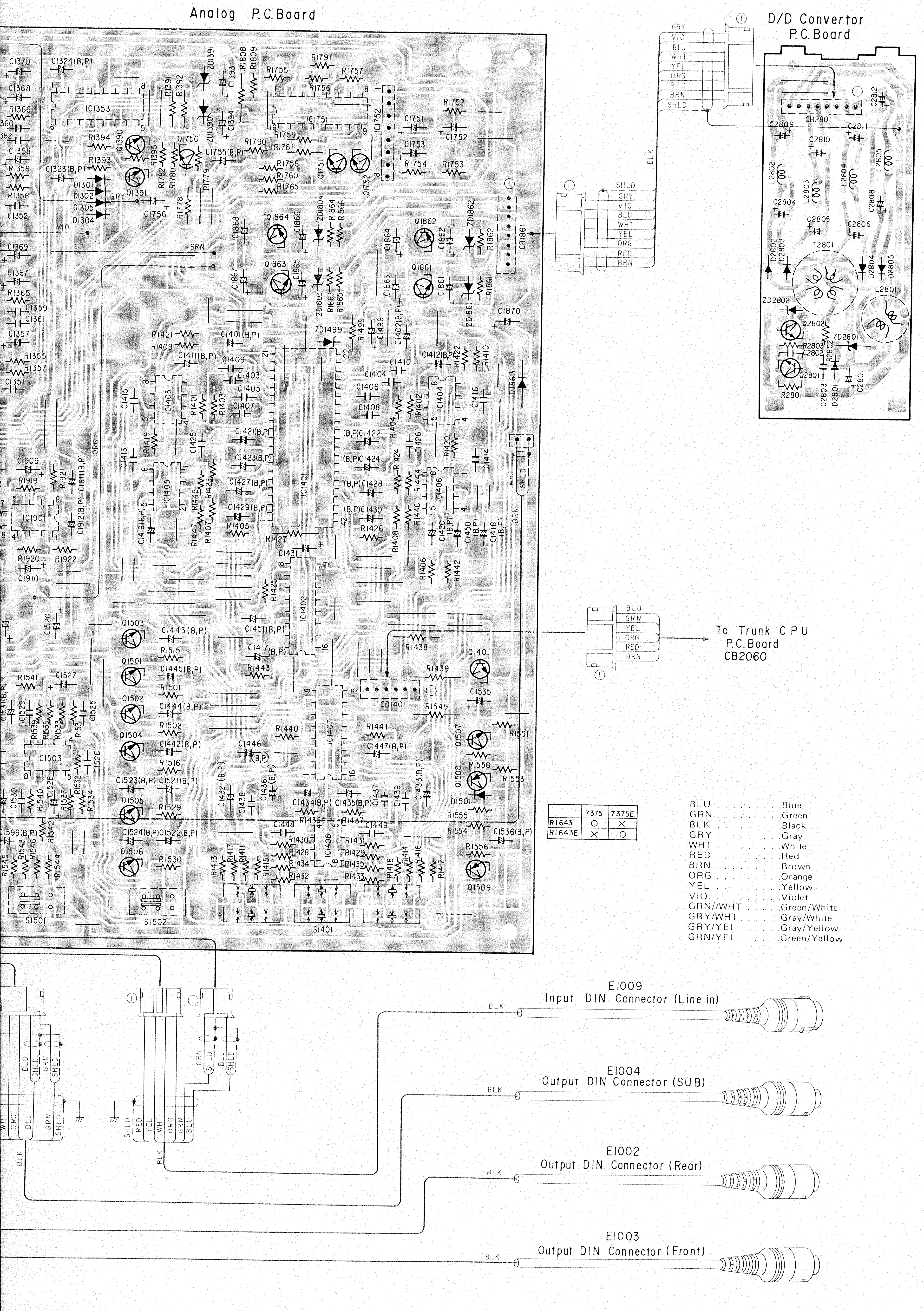


BRN
GRY
WHT
VIO
SHLD
RED
CB1201
IC1251
IC1302
IC1601
IC1303
IC1502
IC1501
T.P1
T.P2
T.P3
T.P4
T.P5
T.P6
FE1001
FE1002
DSP1001
RL1801
L1801
L1802
CB1601
CB1701
CB1851
CB1501
CB1502
CB1503
VR1502
C1699
Capacitor Ceramic
(7375E Model Only)
E1001
Anttenna Input Connector
To Trunk C P U
P. C. Board
CB2002
To Trunk C P U
P.C.Board
CB2023
To Trunk C P U
P. C. Board
CB2001
CB2061
HD EQ P.C.Board
RL1201
CB1202
CB1203
IC1201
Head HD2001
Head P.C.Board
E1008
Ground Cable
E1007
Power Antenna Cable
E1006
Battery Power Supply Cable
E1005
ACC Power Supply Cable
BLK
BLU
YEL
ORG
GRN

Analog P.C.Board


E1009
Input DIN Connector (L
E1004
Output DIN Connector (S
E1002
Output DIN Connector (Re
E1003
Output DIN Connector (Fr
GRY
VIO
BLU
WHT
YEL
ORG
RED
BRN
SHLD
BLK
GRN
PU
ble
VR1501
VR1502
S1501
S1502
S1401
CB1501
CB1502
CB1503
CB1401
CB1861
CB1901
IC1401
IC1402
IC1351
IC1352
IC1353
IC1751
IC1302
IC1303
IC1501
IC1502
IC1503
IC1901
IC1407
IC1408
RL1801
L1801
L1802
T.P.1
T.P.2
T.P.3
T.P.4
T.P.5
T.P.6

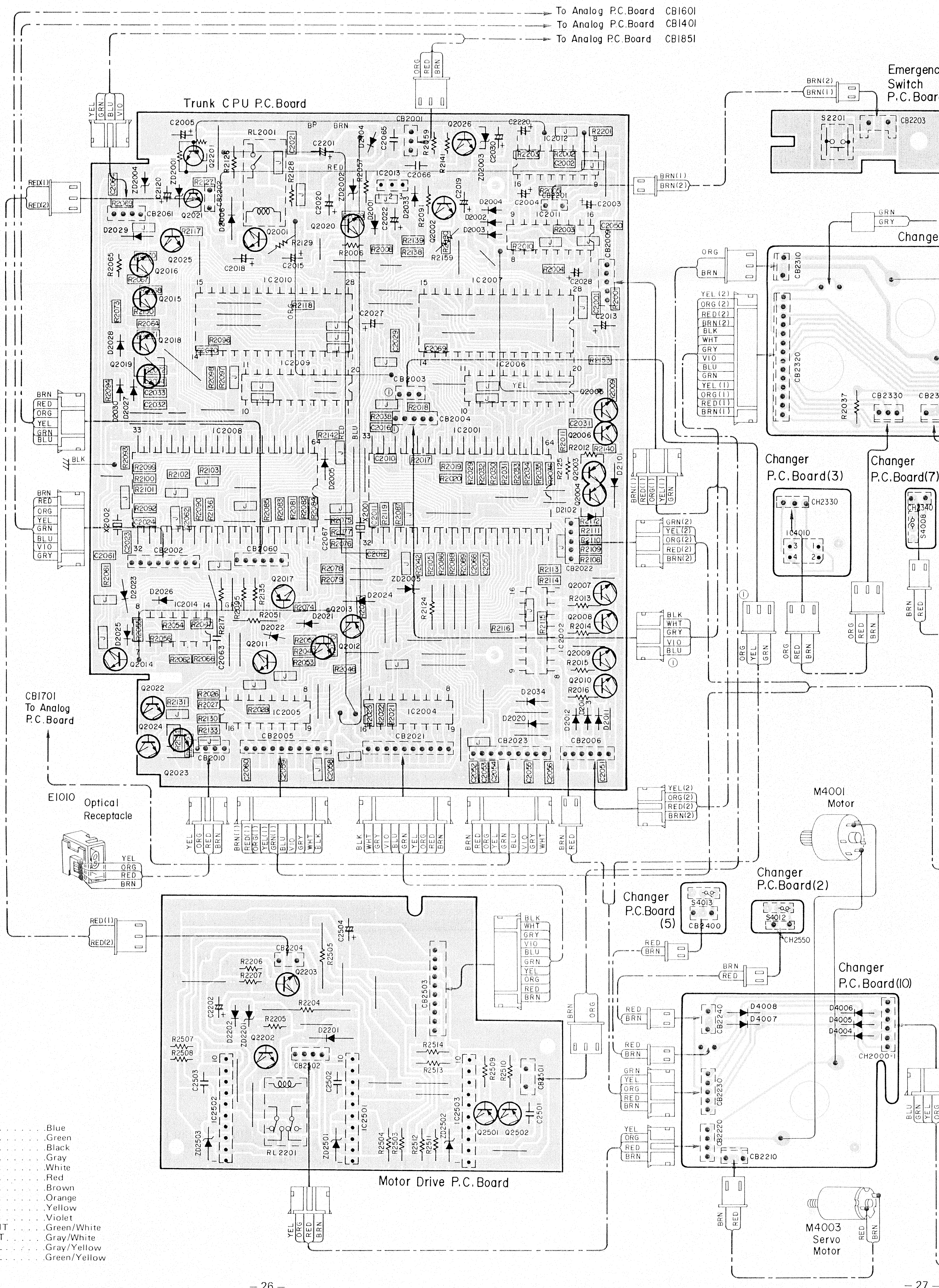
	7375	7375E
R1643	○	×
R1643E	×	○


Analog P.C.Board
D/D Convertor P.C.Board
To Trunk CPU P.C.Board CB2060
GRY
VIO
BLU
WHT
YEL
ORG
RED
BRN
SHLD
BLK
GRN
CH2801
T2801
CB1861
CB1401
IC1353
IC1751
IC1401
IC1402
IC1407
IC1403
IC1404
IC1405
IC1406
IC1408
IC1901
IC1503
S1501
S1502
S1401
E1009
Input DIN Connector (Line in)
E1004
Output DIN Connector (SUB)
E1002
Output DIN Connector (Rear)
E1003
Output DIN Connector (Front)

	7375	7375E
R1643	○	×
R1643E	×	○

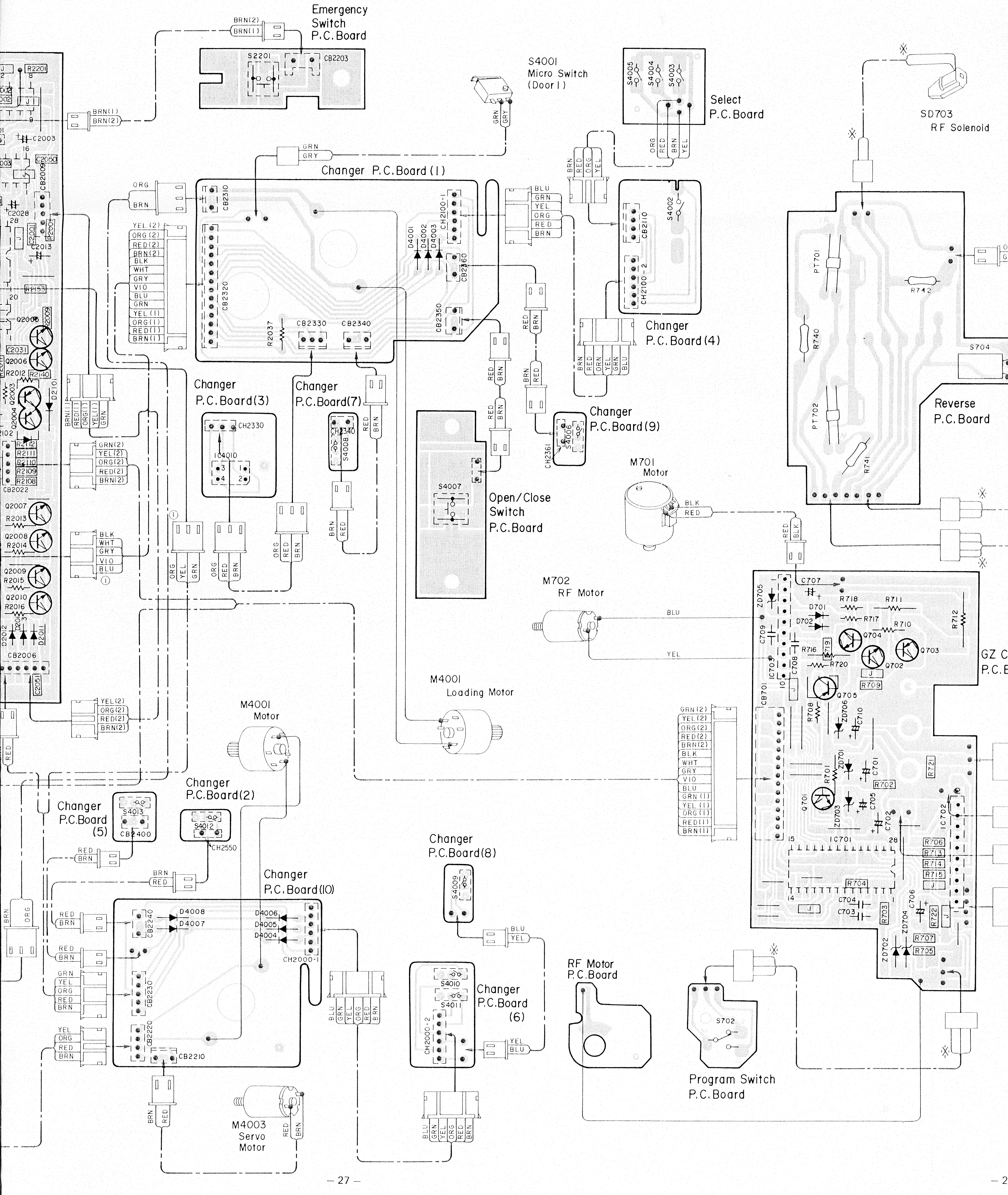
BLU	Blue
GRN	Green
BLK	Black
GRY	Gray
WHT	White
RED	Red
BRN	Brown
ORG	Orange
YEL	Yellow
VIO	Violet
GRN//WHT	Green/White
GRY/WHT	Gray/White
GRY/YEL	Gray/Yellow
GRN/YEL	Green/Yellow

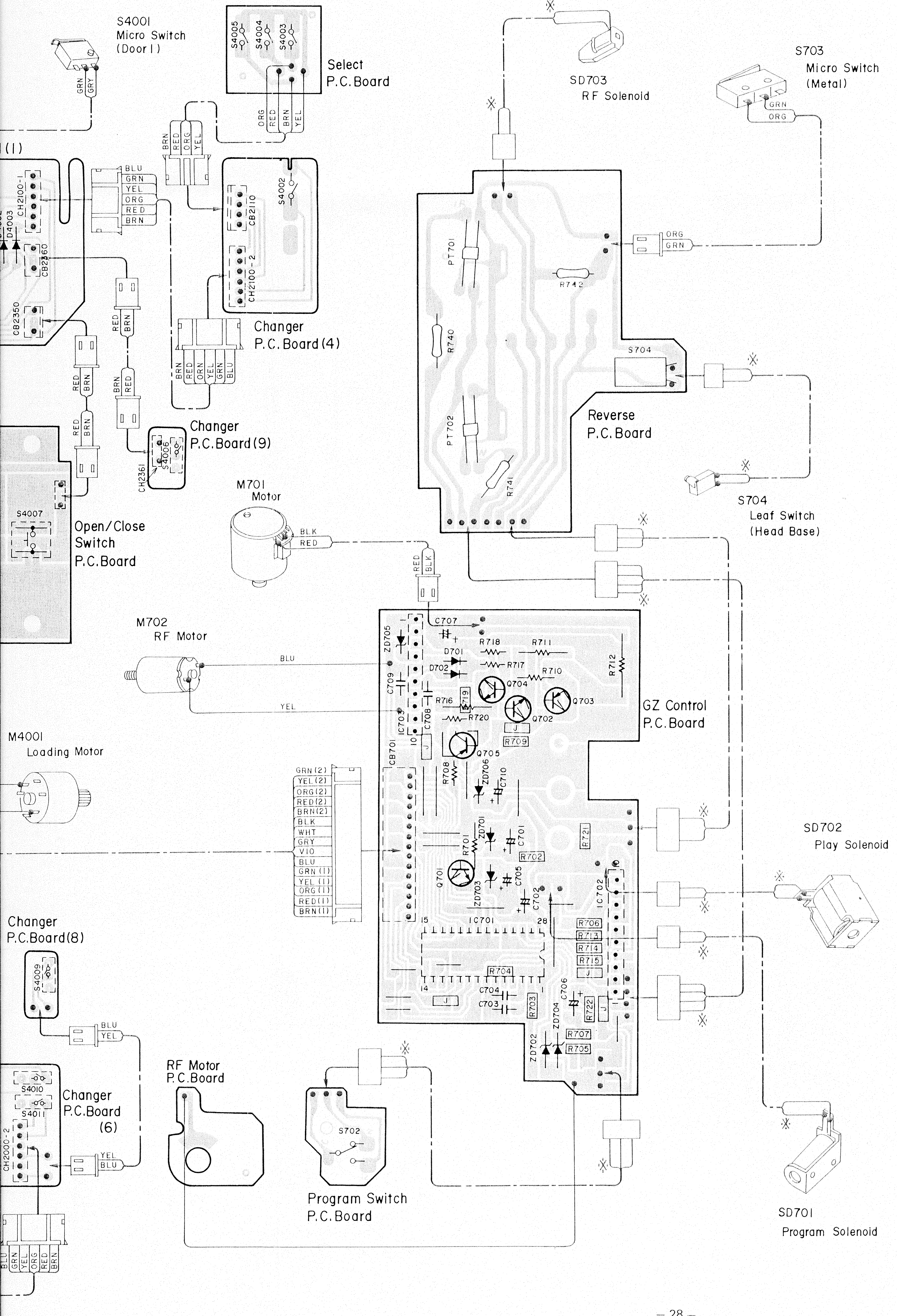
Parts Layout on P.C. Boards and Wiring Diagram (2/3)


To Analog P.C.Board CB1601
To Analog P.C.Board CB1401
To Analog P.C.Board CB1851
Trunk CPU P.C.Board
Emergency Switch P.C.Board
S2201
CB2203
Changer
CB2310
CB2320
CB2330
Changer P.C.Board(3)
CH2330
IC4010
Changer P.C.Board(7)
S4008
CB1701 To Analog P.C.Board
E1010 Optical Receptacle
M4001 Motor
Changer P.C.Board(5)
S4013
CB2400
Changer P.C.Board(2)
S4012
CH2550
Changer P.C.Board(10)
CB2240
CB2230
CB2220
CB2210
CH2000-1
D4008
D4007
D4006
D4005
D4004
Motor Drive P.C.Board
CB2204
CB2502
CB2503
CB2501
RL2201
IC2501
IC2502
IC2503
Q2201
Q2202
Q2203
Q2501
Q2502
M4003 Servo Motor
IC2001
IC2005
IC2006
IC2007
IC2008
IC2009
IC2010
IC2011
IC2012
IC2013
IC2014
IC2004
RL2001
CB2001
CB2002
CB2003
CB2004
CB2005
CB2006
CB2010
CB2021
CB2022
CB2023
CB2060
CB2061
X2001
X2002
BRN
RED
ORG
YEL
GRN
BLU
VIO
GRY
WHT
BLK

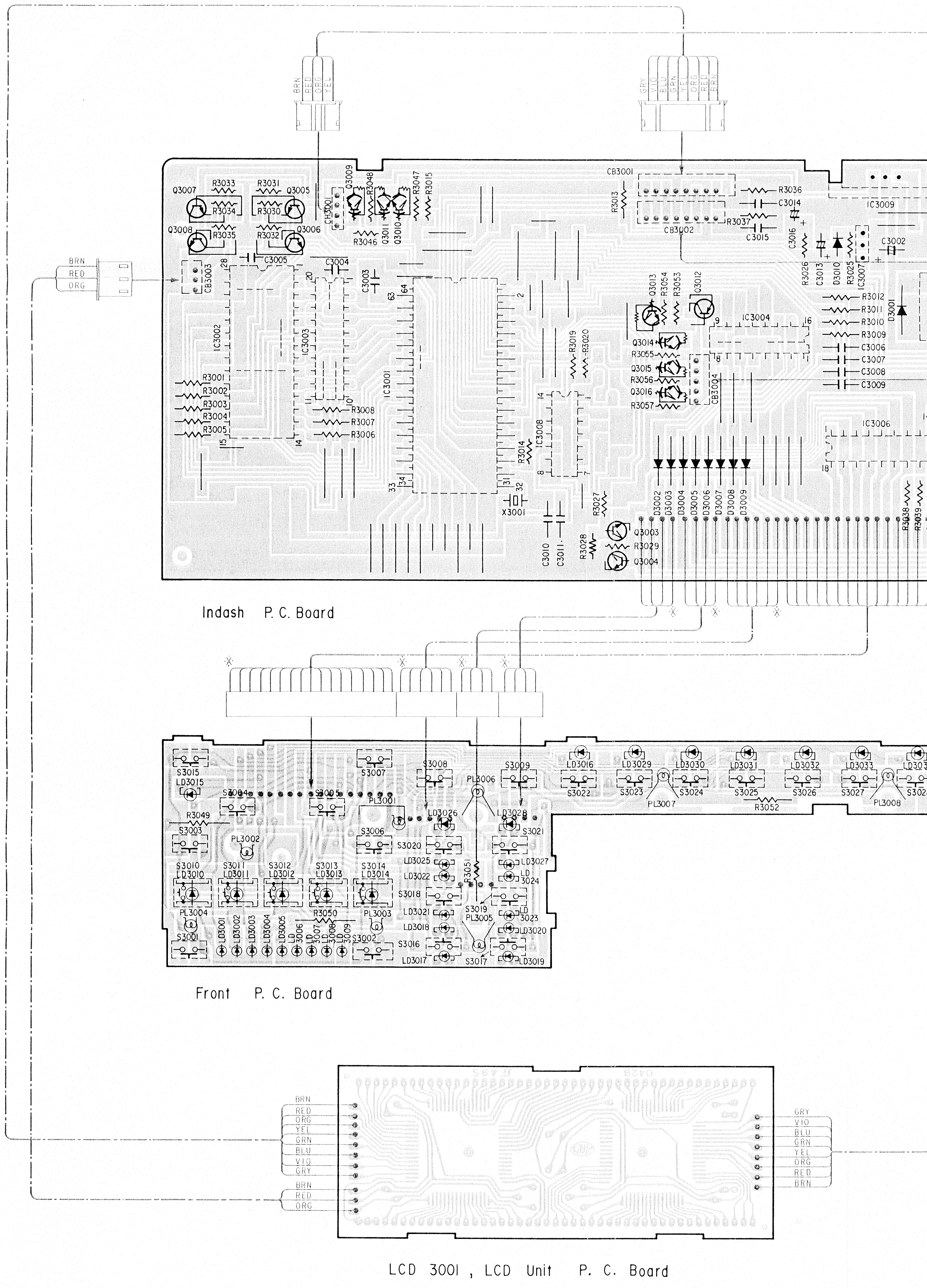
BLU	Blue
GRN	Green
BLK	Black
GRY	Gray
WHT	White
RED	Red
BRN	Brown
ORG	Orange
YEL	Yellow
VIO	Violet
GRN/WHT	Green/White
GRY/WHT	Gray/White
GRY/YEL	Gray/Yellow
GRN/YEL	Green/Yellow

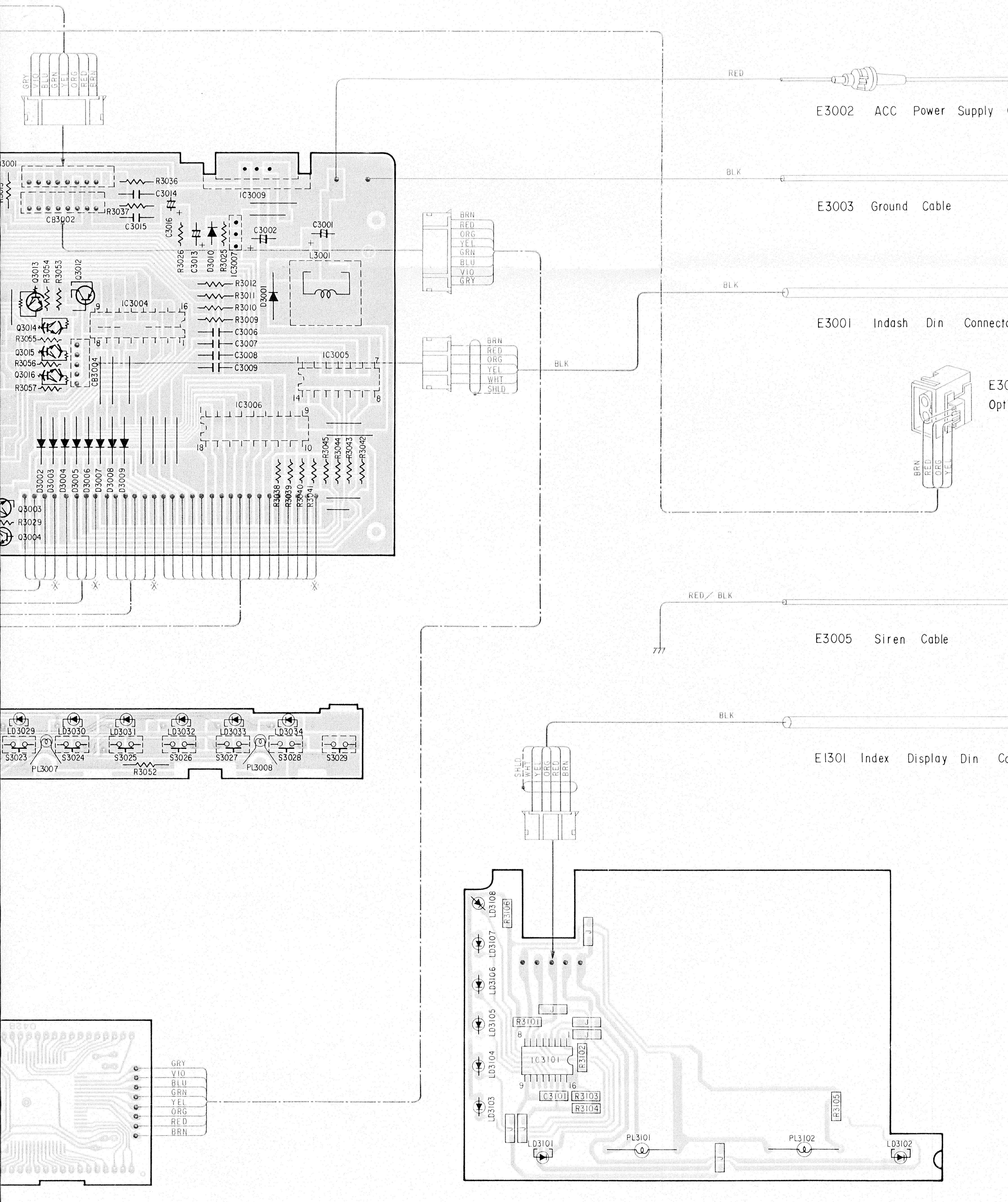
o Analog P.C.Board CB1601
o Analog P.C.Board CB1401
o Analog P.C.Board CB1851


Emergency Switch P.C.Board
S2201
CB2203
BRN(1)
BRN(2)
S4001 Micro Switch (Door I)
GRN
GRY
Select P.C.Board
S4005
S4004
S4003
ORG
RED
BRN
YEL
SD703 RF Solenoid
Changer P.C.Board (1)
CB2310
CB2320
CH2100-1
D4001
D4002
D4003
CB2360
CB2350
R2037
CB2330
CB2340
BLU
GRN
YEL
ORG
RED
BRN
S4002
CB2110
CH2100-2
Changer P.C.Board (4)
PT701
R742
R740
S704
PT702
R741
Reverse P.C.Board
YEL(2)
ORG(2)
RED(2)
BRN(2)
BLK
WHT
GRY
VIO
GRN
YEL(1)
ORG(1)
RED(1)
BRN(1)
Changer P.C.Board(3)
CH2330
IC4010
Changer P.C.Board(7)
CH2340
S4008
Changer P.C.Board(9)
S4006
CH2361
S4007
Open/Close Switch P.C.Board
M701 Motor
BLK
RED
M702 RF Motor
BLU
YEL
GZ C
P.C.B
C707
ZD705
D701
D702
R718
R711
R717
R710
R712
C709
R716
R719
R720
Q704
Q703
Q702
IC703
C708
R709
Q705
CB701
R708
ZD706
C710
ZD701
R701
C701
R702
R721
Q701
ZD703
C705
C702
IC702
IC701
R706
R713
R714
R715
R704
C704
C703
R703
C706
ZD704
R722
R707
R705
ZD702
R2201
C2003
C2050
C2028
C2013
R2153
Q2008
R2009
C2031
Q2006
R2012
R2140
Q2003
Q2004
D2101
R2112
R2111
R2110
R2109
R2108
CB2022
Q2007
R2013
Q2008
R2014
Q2009
R2015
Q2010
R2016
D2012
D2011
CB2006
C2051
GRN(2)
YEL(2)
ORG(2)
RED(2)
BRN(2)
BLK
WHT
GRY
VIO
BLU
①
M4001 Loading Motor
M4001 Motor
Changer P.C.Board(2)
S4012
CH2550
Changer P.C.Board (5)
S4013
CB2400
Changer P.C.Board(10)
CB2240
D4008
D4007
D4006
D4005
D4004
CH2000-1
CB2230
CB2220
CB2210
Changer P.C.Board(8)
S4009
Changer P.C.Board (6)
S4010
S4011
CH2000-2
M4003 Servo Motor
RF Motor P.C.Board
Program Switch P.C.Board
S702
※


S4001
Micro Switch
(Door I)
GRN
GRY
S4005
S4004
S4003
Select
P.C.Board
ORG
RED
BRN
YEL
※
SD703
RF Solenoid
S703
Micro Switch
(Metal)
GRN
ORG
BRN
RED
ORG
YEL
(1)
BLU
GRN
YEL
ORG
RED
BRN
CH2100-1
S4002
CB2110
CH2100-2
CB2360
CB2350
Changer
P.C.Board (4)
BRN
RED
ORN
YEL
GRN
BLU
RED
BRN
Changer
P.C.Board (9)
CH2361
S4006
PT701
R742
R740
PT702
R741
S704
Reverse
P.C.Board
S704
Leaf Switch
(Head Base)
M701
Motor
BLK
RED
S4007
Open/Close
Switch
P.C.Board
M702
RF Motor
BLU
YEL
GZ Control
P.C.Board
C707
R718
R711
D701
D702
R717
R710
R712
ZD705
C709
Q704
Q703
R716
R719
R720
Q702
C708
IC703
R709
CB701
Q705
R708
ZD706
C710
ZD701
R701
C701
R702
R721
Q701
ZD703
C705
C702
IC702
IC701
15
28
14
1
10
R706
R713
R714
R715
R704
C704
C703
R703
C706
ZD704
R722
R707
R705
ZD702
J
M4001
Loading Motor
GRN (2)
YEL (2)
ORG (2)
RED (2)
BRN (2)
BLK
WHT
GRY
VIO
BLU
GRN (1)
YEL (1)
ORG (1)
RED (1)
BRN (1)
SD702
Play Solenoid
Changer
P.C.Board (8)
S4009
BLU
YEL
S4010
S4011
CH2000-2
Changer
P.C.Board
(6)
YEL
BLU
RF Motor
P.C.Board
S702
Program Switch
P.C.Board
SD701
Program Solenoid
BLU
GRN
YEL
ORG
RED
BRN

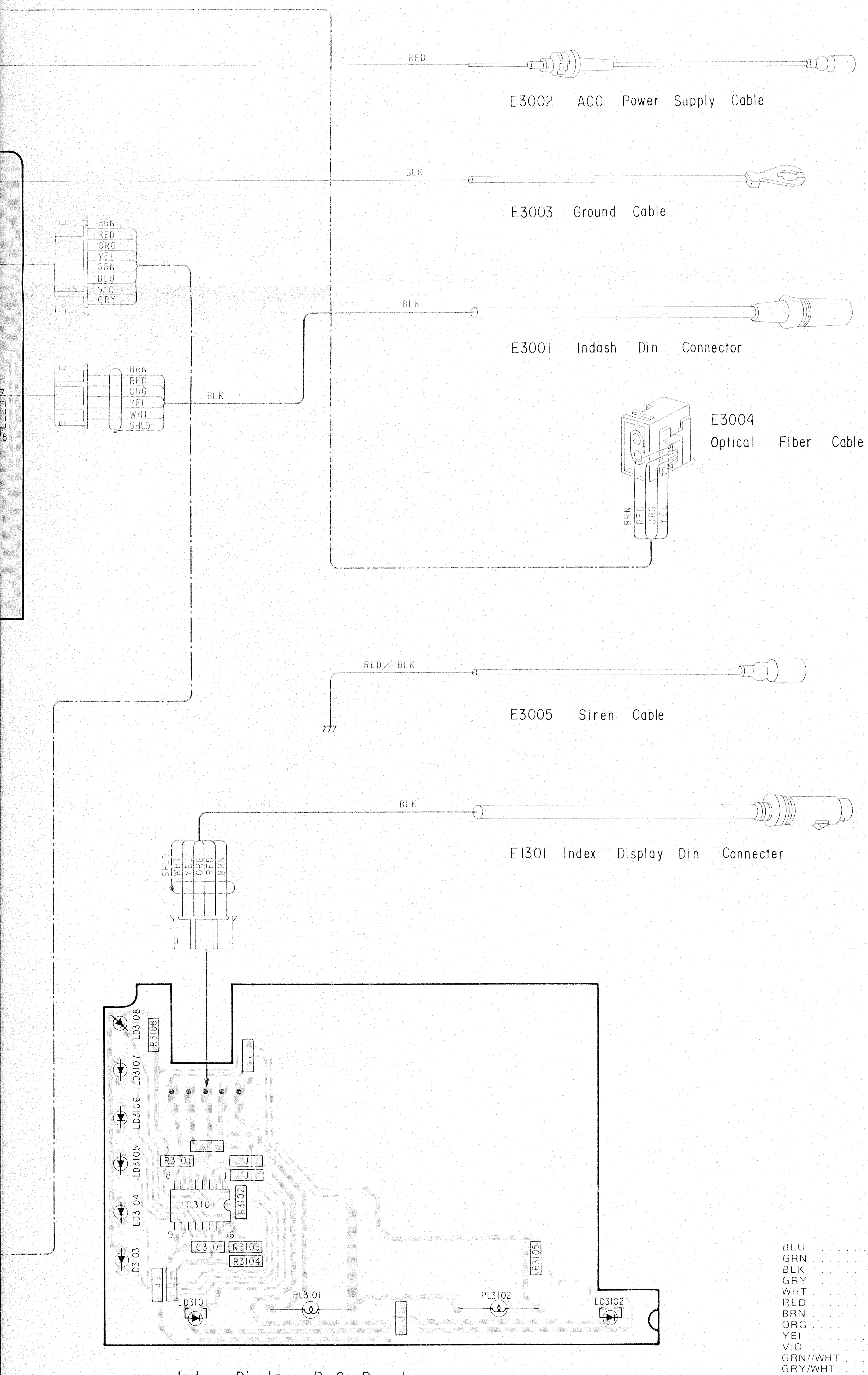
Parts Layout on P.C. Boards and Wiring Diagram (3/3)


BRN
RED
ORG
YEL
GRY
VIO
BLU
GRN
Q3007
R3033
R3031
Q3005
R3034
R3030
Q3008
R3035
R3032
Q3006
CH3001
Q3009
R3048
Q3011
Q3010
R3047
R3015
R3046
C3005
C3004
CB3003
IC3002
IC3003
C3003
IC3001
R3001
R3002
R3003
R3004
R3005
R3008
R3007
R3006
CB3001
CB3002
R3013
R3036
C3014
R3037
C3015
C3016
IC3009
R3026
C3013
D3010
R3025
IC3007
C3002
Q3013
R3054
R3053
Q3012
Q3014
R3055
Q3015
R3056
Q3016
R3057
CB3004
IC3004
R3012
R3011
R3010
R3009
D3001
C3006
C3007
C3008
C3009
IC3006
R3019
R3020
IC3008
R3014
X3001
C3010
C3011
R3027
R3028
Q3003
R3029
Q3004
D3002
D3003
D3004
D3005
D3006
D3007
D3008
D3009
R3038
R3039
Indash P. C. Board
S3015
LD3015
S3007
S3008
S3009
PL3006
LD3016
LD3029
LD3030
LD3031
LD3032
LD3033
S3004
S3005
PL3001
S3022
S3023
S3024
S3025
S3026
S3027
PL3007
R3052
PL3008
R3049
S3003
LD3026
LD3028
S3021
S3006
PL3002
S3020
S3010
LD3010
S3011
LD3011
S3012
LD3012
S3013
LD3013
S3014
LD3014
LD3025
LD3027
LD3022
R3051
LD3024
S3018
PL3004
R3050
PL3003
LD3021
S3019
PL3005
LD3023
LD3018
LD3020
S3001
LD3001
LD3002
LD3003
LD3004
LD3005
LD3006
LD3007
LD3008
LD3009
S3002
S3016
LD3017
S3017
LD3019
Front P. C. Board
LCD 3001, LCD Unit P. C. Board


RED
E3002 ACC Power Supply
BLK
E3003 Ground Cable
BLK
E3001 Indash Din Connecto
E30
Opt
RED/ BLK
E3005 Siren Cable
BLK
E1301 Index Display Din Co
GRY VIO BLU GRN YEL ORG RED BRN
BRN RED ORG YEL GRN BLU VIO GRY
BRN RED ORG YEL WHT SHLD
SHLD WHT YEL ORG RED BRN
CB3002
CB3004
IC3009
IC3004
IC3005
IC3006
L3001
R3036
C3014
R3037
C3015
C3016
R3026
C3013
D3010
R3025
IC3007
C3002
C3001
D3001
R3012
R3011
R3010
R3009
C3006
C3007
C3008
C3009
Q3013
R3054
R3053
Q3012
Q3014
R3055
Q3015
R3056
Q3016
R3057
D3002
D3003
D3004
D3005
D3006
D3007
D3008
D3009
R3038
R3039
R3040
R3041
R3045
R3044
R3043
R3042
Q3003
R3029
Q3004
LD3029
LD3030
LD3031
LD3032
LD3033
LD3034
S3023
S3024
S3025
S3026
S3027
S3028
S3029
PL3007
PL3008
R3052
LD3108
LD3107
LD3106
LD3105
LD3104
LD3103
LD3101
LD3102
R3106
R3101
R3102
R3103
R3104
R3105
IC3101
C3101
PL3101
PL3102
J

Board

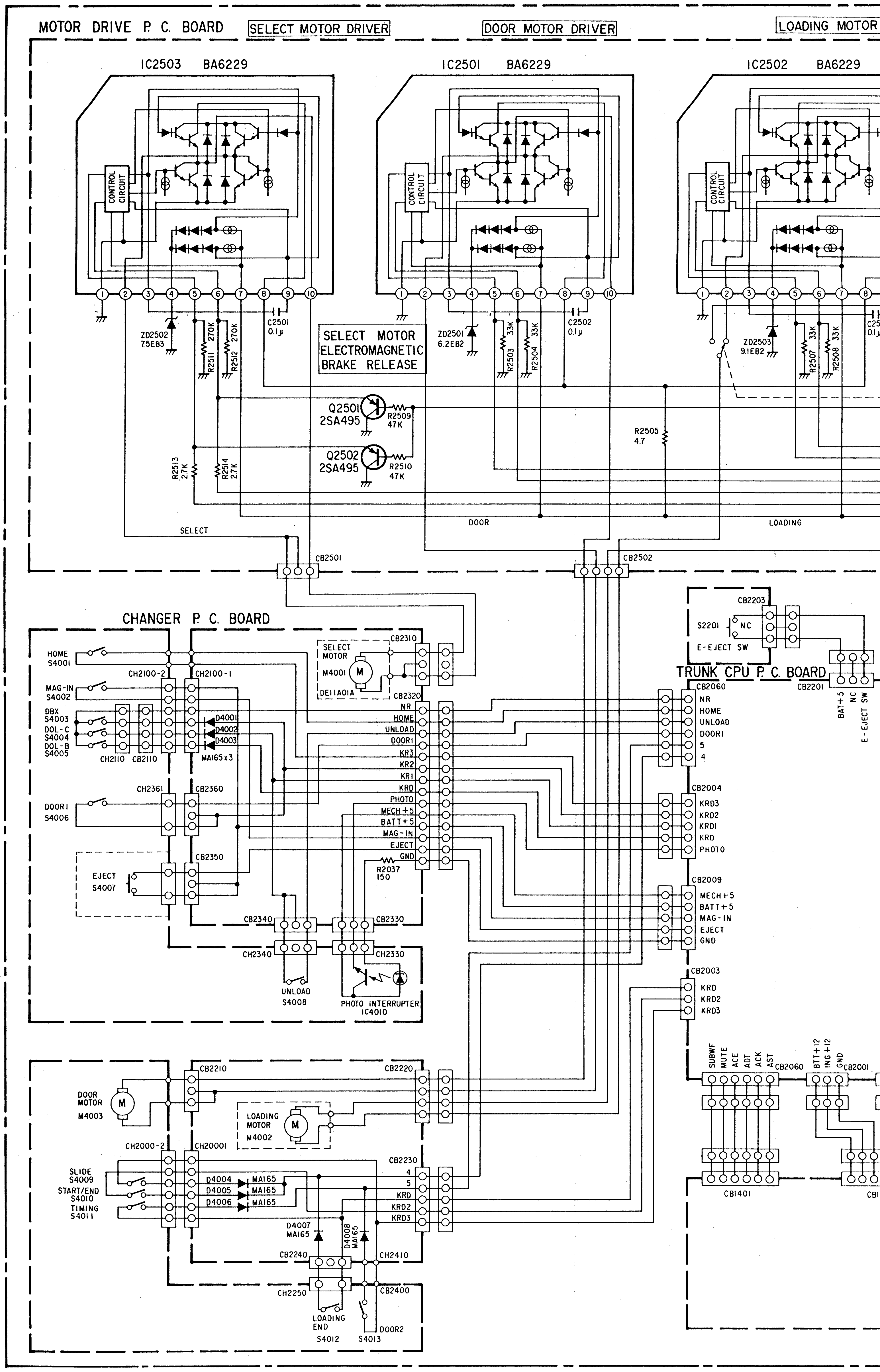
Index Display P. C. Board

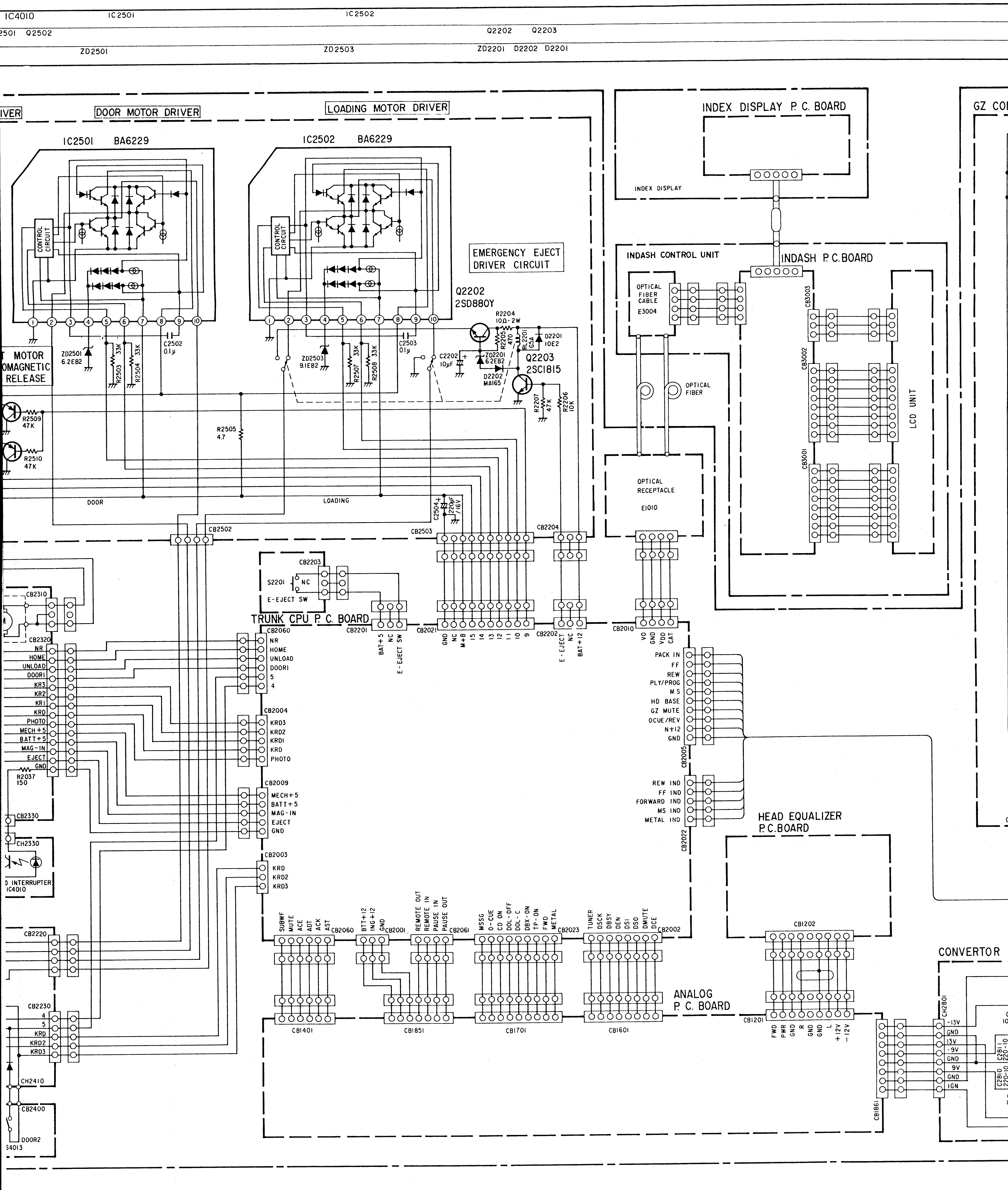

RED
E3002 ACC Power Supply Cable
BLK
E3003 Ground Cable
BRN
RED
ORG
YEL
GRN
BLU
VIO
GRY
BLK
E3001 Indash Din Connector
BRN
RED
ORG
YEL
WHT
SHLD
BLK
E3004
Optical Fiber Cable
BRN
RED
ORG
YEL
RED/ BLK
E3005 Siren Cable
BLK
E1301 Index Display Din Connecter
SHLD
WHT
YEL
ORG
RED
BRN
LD3108
R3106
J
LD3107
LD3106
J
R3101
J
J
8
1
IC3101
R3102
9
16
LD3105
LD3104
C3101
R3103
R3104
LD3103
J
J
R3105
PL3101
PL3102
LD3101
J
LD3102
Index Display P. C. Board

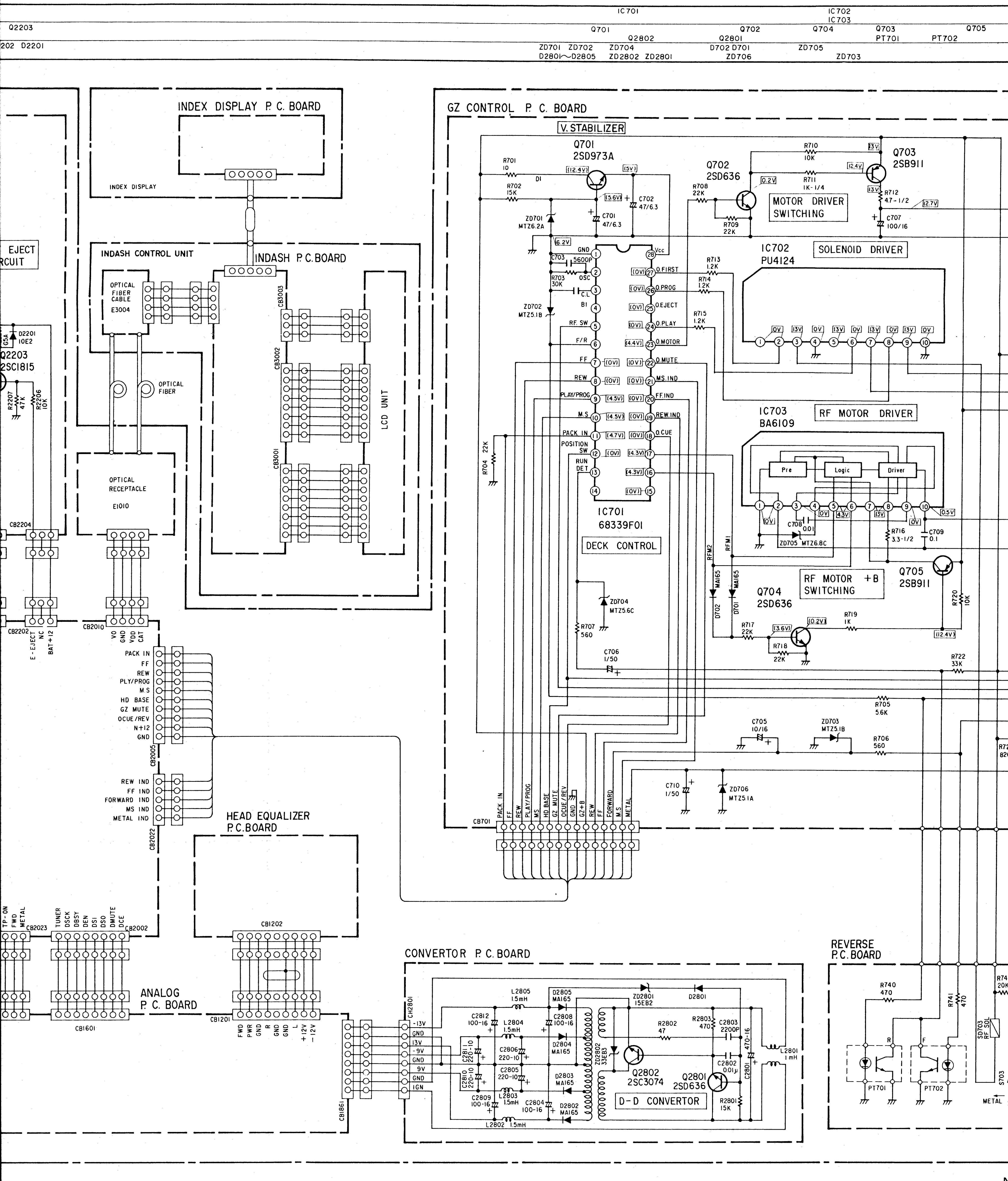
BLU	Blue
GRN	Green
BLK	Black
GRY	Gray
WHT	White
RED	Red
BRN	Brown
ORG	Orange
YEL	Yellow
VIO	Violet
GRN//WHT	Green/White
GRY/WHT	Gray/White
GRY/YEL	Gray/Yellow
GRN/YEL	Green/Yellow

Schematic Diagram (1/4)

IC	IC2503	IC4010	IC2501	IC2502
Transistor(Q,PT)	Q2501 Q2502			
Diode (D,ZD)	ZD2502 D4001∼D4003 D4004∼D4008	ZD2501	ZD2503	

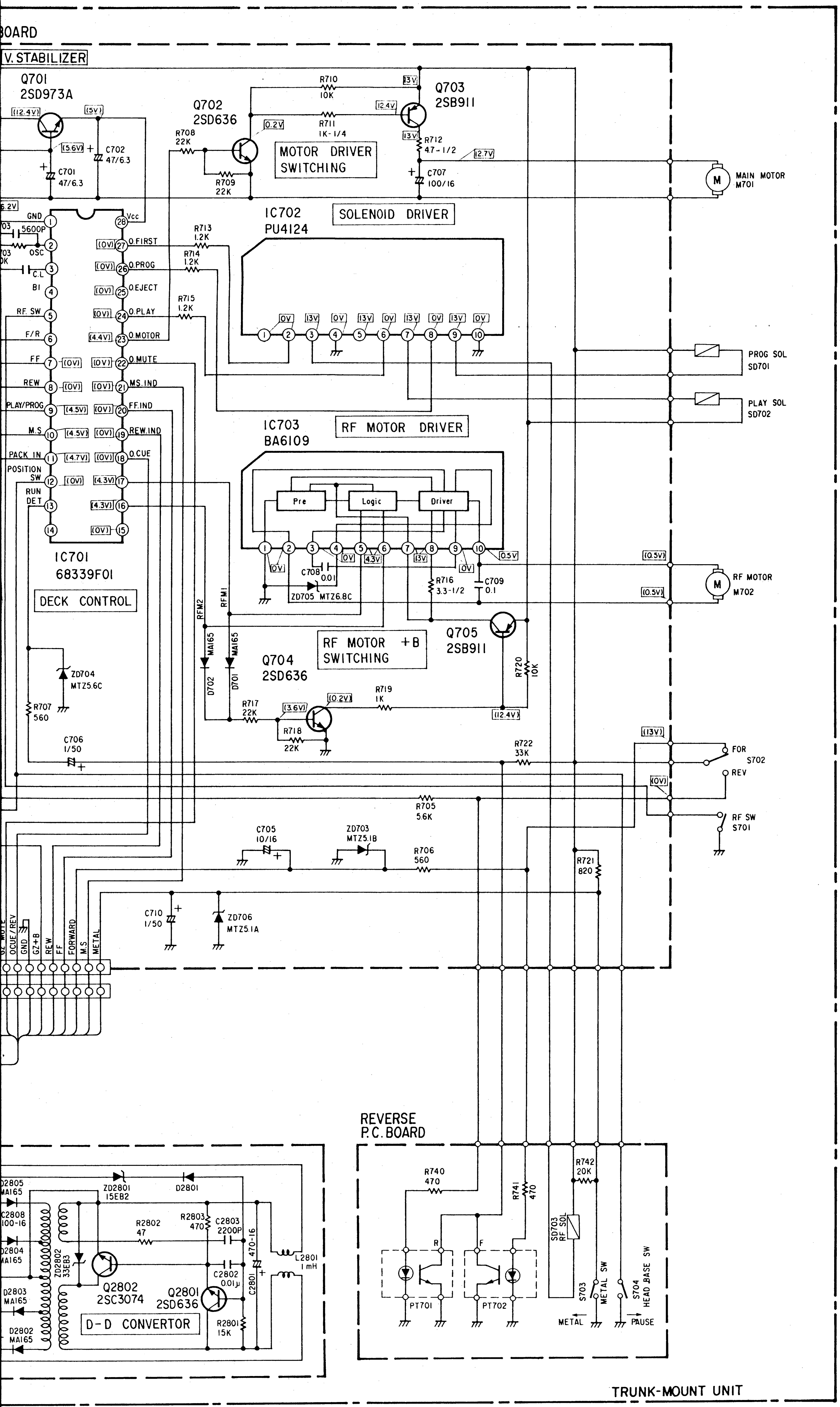

MOTOR DRIVE P. C. BOARD
SELECT MOTOR DRIVER
DOOR MOTOR DRIVER
LOADING MOTOR
IC2503 BA6229
IC2501 BA6229
IC2502 BA6229
CONTROL CIRCUIT
ZD2502 7.5EB3
R2511 270K
R2512 270K
C2501 0.1μ
SELECT MOTOR ELECTROMAGNETIC BRAKE RELEASE
ZD2501 6.2EB2
R2503 33K
R2504 33K
C2502 0.1μ
ZD2503 9.1EB2
R2507 33K
R2508 33K
Q2501 2SA495
R2509 47K
Q2502 2SA495
R2510 47K
R2513 2.7K
R2514 2.7K
R2505 4.7
SELECT
DOOR
LOADING
CB2501
CB2502
CHANGER P. C. BOARD
HOME S4001
MAG-IN S4002
DBX S4003
DOL-C S4004
DOL-B S4005
CH2110
CB2110
CH2100-2
CH2100-1
D4001
D4002
D4003
MA165x3
SELECT MOTOR M4001
DE11A01A
CB2310
CB2320
NR
HOME
UNLOAD
DOOR1
KR3
KR2
KR1
KRD
PHOTO
MECH+5
BATT+5
MAG-IN
EJECT
GND
R2037 150
DOOR1 S4006
CH2361
CB2360
EJECT S4007
CB2350
CB2340
CH2340
CB2330
CH2330
UNLOAD S4008
PHOTO INTERRUPTER IC4010
CB2203
S2201
NC
E-EJECT SW
TRUNK CPU P. C. BOARD
CB2201
CB2060
NR
HOME
UNLOAD
DOOR1
5
4
BAT+5
NC
E-EJECT SW
CB2004
KRD3
KRD2
KRD1
KRD
PHOTO
CB2009
MECH+5
BATT+5
MAG-IN
EJECT
GND
CB2003
KRD
KRD2
KRD3
SUBWF
MUTE
ACE
ADT
ACK
AST
CB2060
BTT+12
ING+12
GND
CB2001
CB1401
DOOR MOTOR M4003
CB2210
CB2220
LOADING MOTOR M4002
CH2000-2
CH20001
CB2230
SLIDE S4009
START/END S4010
TIMING S4011
D4004
D4005
D4006
MA165
4
5
KRD
KRD2
KRD3
D4007 MA165
D4008 MA165
CB2240
CH2410
CH2250
CB2400
LOADING END S4012
DOOR2 S4013


IC4010
IC2501
IC2502
2501 Q2502
Q2202 Q2203
ZD2501
ZD2503
ZD2201 D2202 D2201
IVER
DOOR MOTOR DRIVER
LOADING MOTOR DRIVER
IC2501 BA6229
IC2502 BA6229
CONTROL CIRCUIT
EMERGENCY EJECT DRIVER CIRCUIT
Q2202 2SD880Y
Q2203 2SC1815
R2204 10Ω-2W
R2205 470
RL2201 G5A
D2201 10E2
ZD2201 6.2EB2
D2202 MA165
C2202 10μF
R2207 47K
R2206 10K
T MOTOR
OMAGNETIC
RELEASE
ZD2501 6.2EB2
R2503 33K
R2504 33K
C2502 0.1μ
ZD2503 9.1EB2
R2507 33K
R2508 33K
C2503 0.1μ
R2509 47K
R2510 47K
R2505 4.7
DOOR
LOADING
C2504 220μF /16V
CB2502
CB2503
CB2204
CB2203
S2201 NC
E-EJECT SW
TRUNK CPU P. C. BOARD
CB2201
CB2021
CB2202
CB2010
BAT+5 NC E-EJECT SW
GND NC M+B 15 14 13 12 11 10 9
E-EJECT NC BAT+12
VO GND VDD CAT
INDEX DISPLAY P. C. BOARD
INDEX DISPLAY
INDASH CONTROL UNIT
INDASH P.C.BOARD
OPTICAL FIBER CABLE E3004
OPTICAL FIBER
OPTICAL RECEPTACLE E1010
CB3003
CB3002
CB3001
LCD UNIT
GZ CO
CB2310
CB2320
NR HOME UNLOAD DOOR1 KR3 KR2 KR1 KRD PHOTO MECH+5 BATT+5 MAG-IN EJECT GND
R2037 150
CB2330
CH2330
D INTERRUPTER IC4010
CB2060
NR HOME UNLOAD DOOR1 5 4
CB2004
KRD3 KRD2 KRD1 KRD PHOTO
CB2009
MECH+5 BATT+5 MAG-IN EJECT GND
CB2003
KRD KRD2 KRD3
PACK IN FF REW PLY/PROG M.S HD BASE GZ MUTE OCUE/REV N+12 GND
CB2005
REW IND FF IND FORWARD IND MS IND METAL IND
CB2022
HEAD EQUALIZER P.C.BOARD
CB1202
CB2220
CB2230
4 5 KRD KRD2 KRD3
CH2410
CB2400
DOOR2 S4013
SUBWF MUTE ACE ADT ACK AST
CB2060
BTT+12 ING+12 GND
CB2001
REMOTE OUT REMOTE IN PAUSE IN PAUSE OUT
CB2061
MSSG O-CUE CD ON DOL-OFF DOL-C DBX-ON TP-ON FWD METAL
CB2023
TUNER DSCK DBSY DEN DSI DSO DMUTE DCE
CB2002
ANALOG P. C. BOARD
CB1401
CB1851
CB1701
CB1601
CB1201
FWD PWR GND R GND GND L +12V -12V
CB1861
CONVERTOR
CH2801
-13V GND 13V -9V GND 9V GND IGN
C2811 220-10
C2810 220-10



IC701
IC702
IC703
Q2203
Q701
Q2802
Q702
Q2801
Q704
Q703
PT701
PT702
Q705
202 D2201
ZD701 ZD702
D2801~D2805
ZD704
ZD2802 ZD2801
D702 D701
ZD706
ZD705
ZD703
INDEX DISPLAY P. C. BOARD
INDEX DISPLAY
EJECT
RCUIT
INDASH CONTROL UNIT
INDASH P. C. BOARD
OPTICAL FIBER CABLE
E3004
OPTICAL FIBER
CB3003
CB3002
CB3001
LCD UNIT
OPTICAL RECEPTACLE
E1010
D2201 10E2
Q2203 2SC1815
R2207 47K
R2206 10K
CB2204
CB2202
E-EJECT
NC
BAT+12
CB2010
VO
GND
VDD
CAT
PACK IN
FF
REW
PLY/PROG
M S
HD BASE
GZ MUTE
OCUE/REV
N+12
GND
CB2005
REW IND
FF IND
FORWARD IND
MS IND
METAL IND
CB2022
HEAD EQUALIZER P.C.BOARD
TP-ON
FWD
METAL
CB2023
TUNER
DSCK
DBSY
DEN
DSI
DSO
DMUTE
DCE
CB2002
CB1202
ANALOG P. C. BOARD
CB1601
CB1201
FWD
PWR
R
L
GND
GND
+12V
-12V
CB1861
GZ CONTROL P. C. BOARD
V. STABILIZER
Q701 2SD973A
R701 10
R702 15K
D1
12.4V
5V
5.6V
C702 47/6.3
C701 47/6.3
ZD701 MTZ6.2A
6.2V
C703 5600P
R703 30K
ZD702 MTZ5.1B
GND
OSC
C.L
B1
RF. SW
F/R
FF
REW
PLAY/PROG
M.S
PACK IN
POSITION SW
RUN DET
Vcc
O.FIRST
O.PROG
O.EJECT
O.PLAY
O.MOTOR
O.MUTE
MS.IND
FF.IND
REW.IND
O.CUE
0V
4.4V
4.5V
4.7V
4.3V
IC701 68339F01
DECK CONTROL
R704 22K
ZD704 MTZ5.6C
R707 560
C706 1/50
Q702 2SD636
R708 22K
R709 22K
R710 10K
R711 1K-1/4
0.2V
13V
12.4V
MOTOR DRIVER SWITCHING
Q703 2SB911
R712 4.7-1/2
12.7V
C707 100/16
IC702 PU4124
SOLENOID DRIVER
R713 1.2K
R714 1.2K
R715 1.2K
IC703 BA6109
RF MOTOR DRIVER
Pre
Logic
Driver
C708 .001
ZD705 MTZ6.8C
R716 3.3-1/2
C709 0.1
0.5V
RFM2
RFM1
MA165
D702
D701
RF MOTOR +B SWITCHING
Q704 2SD636
Q705 2SB911
R717 22K
R718 22K
R719 1K
R720 10K
3.6V
10.2V
12.4V
R722 33K
R705 5.6K
C705 10/16
ZD703 MTZ5.1B
R706 560
C710 1/50
ZD706 MTZ5.1A
CB701
PACK IN
FF
REW
PLAY/PROG
MS
HD BASE
GZ MUTE
OCUE/REV
GND
GZ+B
REW
FF
FORWARD
M.S
METAL
CONVERTOR P. C. BOARD
CH2801
-13V
GND
13V
-9V
GND
9V
GND
IGN
L2805 1.5mH
D2805 MA165
ZD2801 15EB2
D2801
C2812 100-16
L2804 1.5mH
C2808 100-16
C2811 220-10
C2806 220-10
C2810 220-10
C2805 220-10
D2804 MA165
D2803 MA165
C2809 100-16
L2803 1.5mH
C2804 100-16
D2802 MA165
L2802 1.5mH
ZD2802 33EB3
Q2802 2SC3074
R2802 47
R2803 470
C2803 2200P
C2802 .001μ
C2801 470-16
L2801 1mH
Q2801 2SD636
R2801 15K
D-D CONVERTOR
REVERSE P.C. BOARD
R740 470
R741 470
R
F
PT701
PT702
R74 20K
R72 82
SD703 RF SOL
S703
METAL

	IC701		IC702 IC703		
Q701	Q2802	Q702 Q2801	Q704	Q703 PT701	PT702 Q705
ZD702 D2805	ZD704 ZD2802 ZD2801	D702 D701 ZD706	ZD705 ZD703		

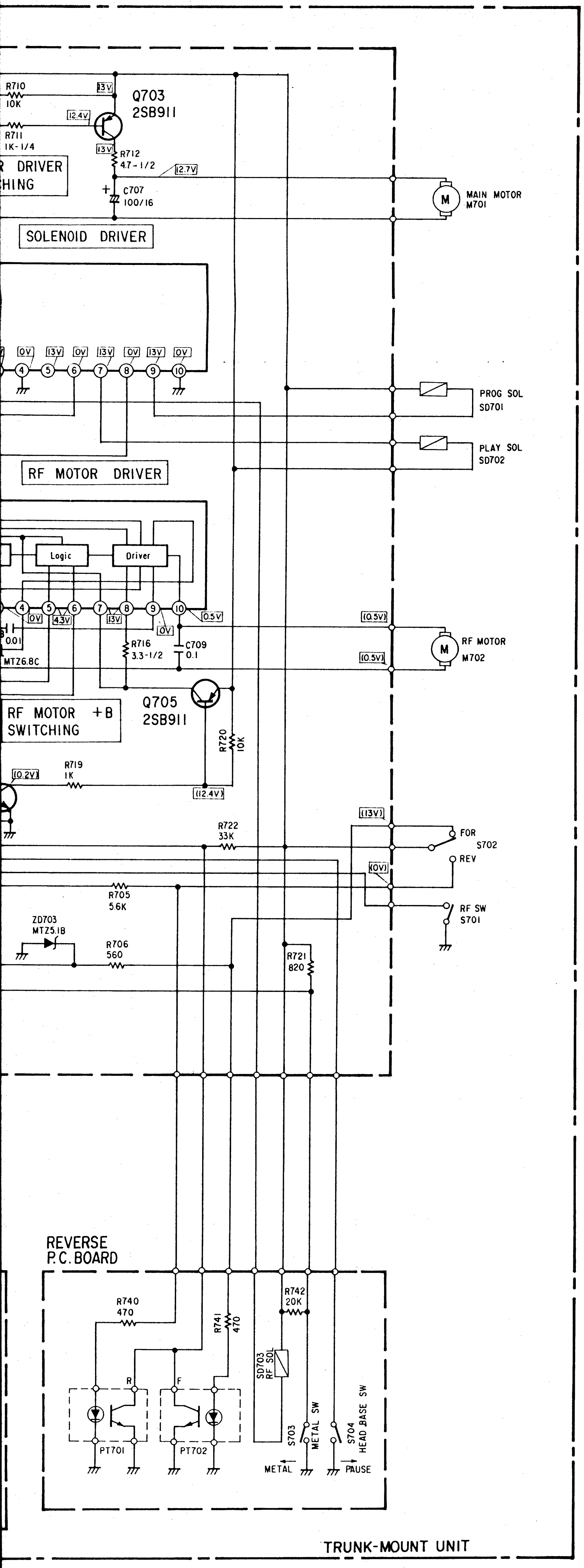


BOARD
V. STABILIZER
Q701 2SD973A
Q702 2SD636
Q703 2SB911
MOTOR DRIVER SWITCHING
MAIN MOTOR M701
IC702 PU4124
SOLENOID DRIVER
IC701 68339F01
DECK CONTROL
PROG SOL SD701
PLAY SOL SD702
IC703 BA6109
RF MOTOR DRIVER
Pre
Logic
Driver
RF MOTOR M702
RF MOTOR +B SWITCHING
Q704 2SD636
Q705 2SB911
FOR
S702
REV
RF SW
S701
REVERSE P.C. BOARD
PT701
PT702
SD703 RF SOL
S703 METAL SW
S704 HEAD BASE SW
METAL
PAUSE
D-D CONVERTOR
Q2802 2SC3074
Q2801 2SD636
L2801 1mH
TRUNK-MOUNT UNIT

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

	IC702		
	IC703		
Q704	Q703		Q705
	PT701	PT702	
D705			
	ZD703		

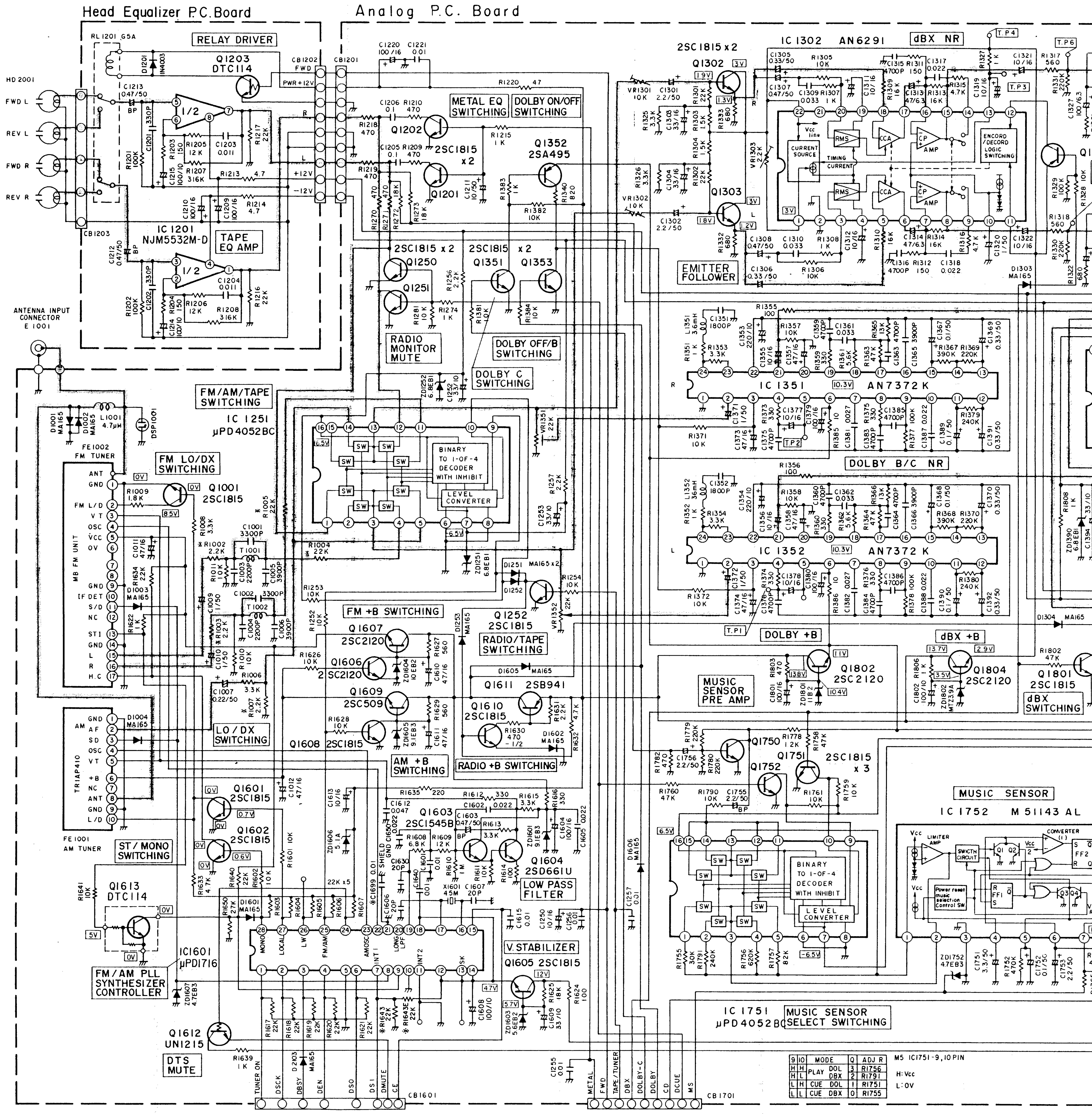


R710
10K
13V
Q703
2SB911
12.4V
R711
1K-1/4
13V
R712
4.7-1/2
12.7V
R DRIVER
CHING
C707
100/16
MAIN MOTOR
M701
SOLENOID DRIVER
0V
13V
0V
13V
0V
13V
0V
PROG SOL
SD701
PLAY SOL
SD702
RF MOTOR DRIVER
Logic
Driver
0V
4.3V
13V
0V
0.5V
0.01
MTZ6.8C
R716
3.3-1/2
C709
0.1
0.5V
0.5V
RF MOTOR
M702
RF MOTOR +B
SWITCHING
Q705
2SB911
R720
10K
0.2V
R719
1K
12.4V
13V
R722
33K
FOR
S702
REV
0V
R705
5.6K
RF SW
S701
ZD703
MTZ5.1B
R706
560
R721
820
REVERSE
P.C. BOARD
R740
470
R741
470
R742
20K
SD703
RF SOL
R
F
PT701
PT702
S703
METAL SW
S704
HEAD BASE SW
METAL
PAUSE
TRUNK-MOUNT UNIT

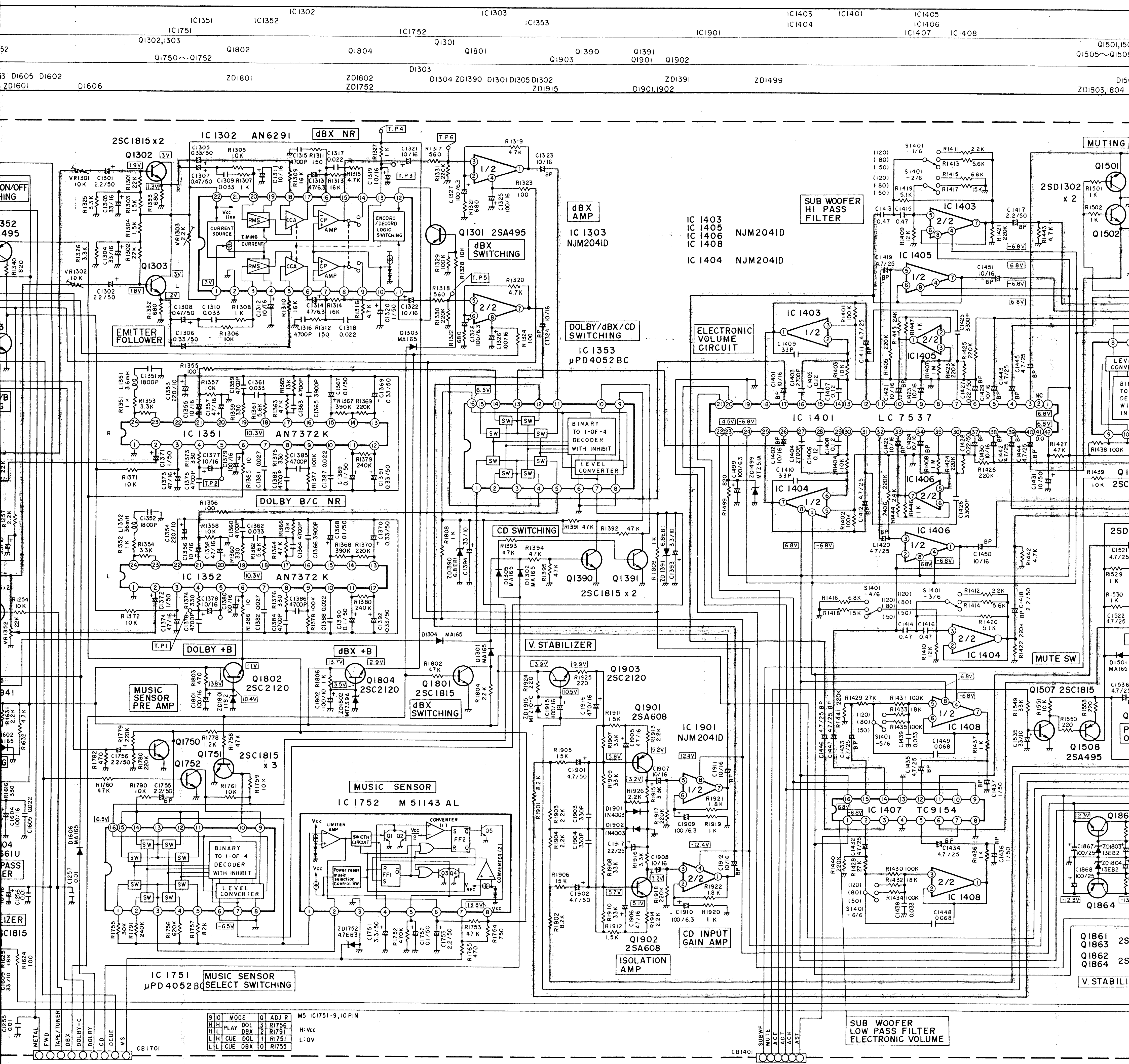
NOTES:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

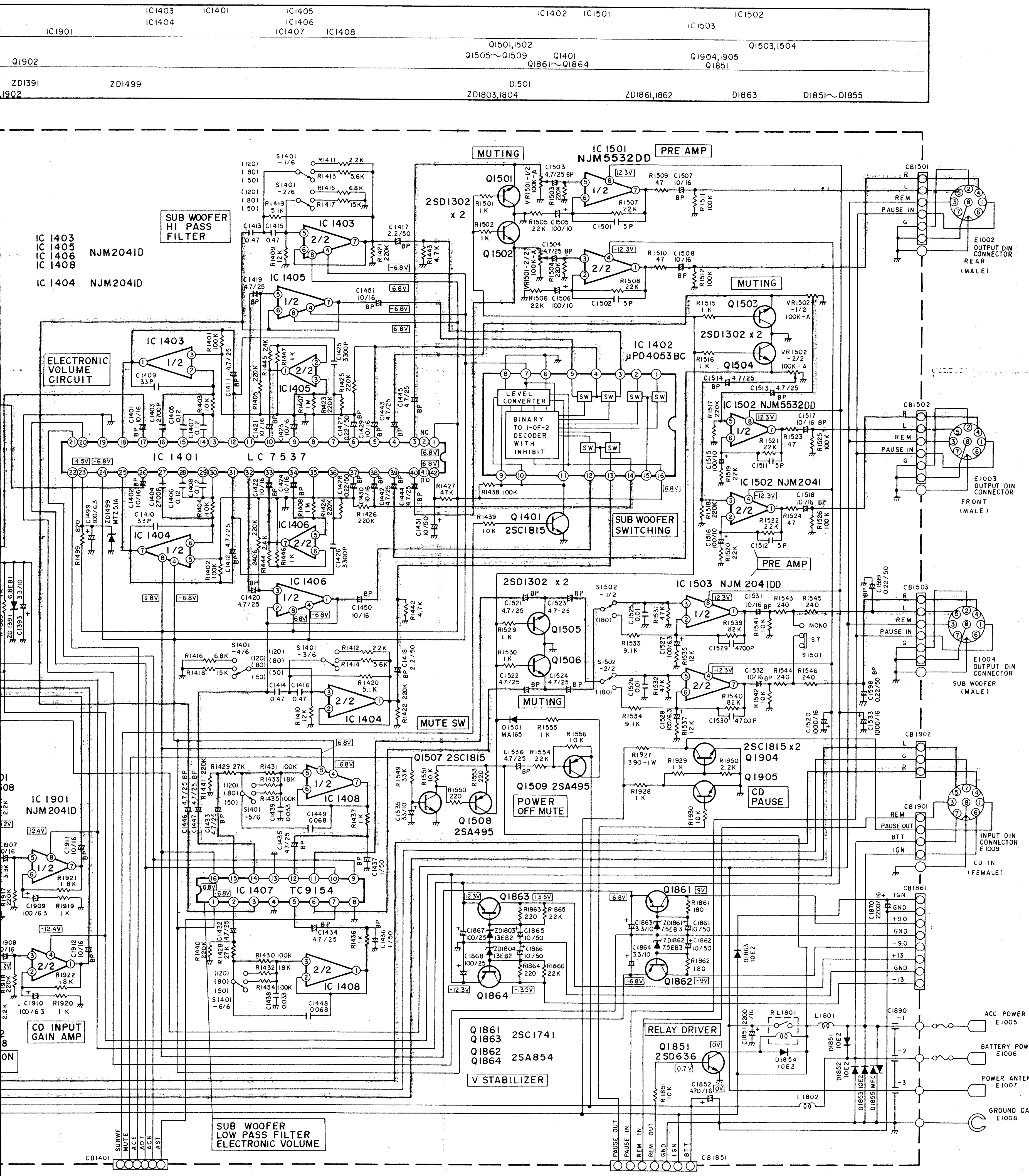
Schematic Diagram (2/4)

IC	IC1201 IC1251 IC1601 IC1351 IC1352 IC1751 IC1302 IC1752
Transistor (Q)	Q1001 Q1203 Q1250,1251 Q1201,1202 Q1601～Q1613 Q1351～Q1353 Q1252 Q1302,1303 Q1750～Q1752 Q1802 Q1804 Q1301 Q
Diode (D,ZD)	D1001～D1004 D1201 ZD1607 D1601 D2103 ZD1606 ZD1604,1605 ZD1251,1252 D1251～D1253 D1605 D1602 ZD1603 ZD1601 D1606 ZD1801 ZD1802 ZD1752 D1303 D1304 ZD1


Head Equalizer P.C.Board
Analog P.C. Board
RELAY DRIVER
Q1203 DTC114
IC1201 NJM5532M-D
TAPE EQ AMP
HD2001
FWD L
REV L
FWD R
REV R
ANTENNA INPUT CONNECTOR E1001
METAL EQ SWITCHING
DOLBY ON/OFF SWITCHING
Q1202
Q1201
2SC1815 x2
Q1352 2SA495
2SC1815 x2 Q1250 Q1251
2SC1815 x2 Q1351 Q1353
RADIO MONITOR MUTE
DOLBY OFF/B SWITCHING
DOLBY C SWITCHING
FM/AM/TAPE SWITCHING
IC1251 μPD4052BC
BINARY TO 1-OF-4 DECODER WITH INHIBIT
LEVEL CONVERTER
FE1002 FM TUNER
FM LO/DX SWITCHING
Q1001 2SC1815
MB FM UNIT
FE1001 AM TUNER
TRIAP410
ST/MONO SWITCHING
Q1601 2SC1815
Q1602 2SC1815
Q1613 DTC114
FM/AM PLL SYNTHESIZER CONTROLLER
IC1601 μPD1716
Q1612 UN1215
DTS MUTE
LO/DX SWITCHING
FM +B SWITCHING
Q1607 2SC2120
Q1606 2SC2120
Q1609 2SC509
Q1608 2SC1815
AM +B SWITCHING
Q1252 2SC1815
RADIO/TAPE SWITCHING
Q1611 2SB941
Q1610 2SC1815
RADIO +B SWITCHING
Q1603 2SC1545B
Q1604 2SD661U
LOW PASS FILTER
V. STABILIZER
Q1605 2SC1815
CB1601
CB1701
TUNER ON
DSCK
DBSY
DEN
DSO
DMUTE
CE
METAL
FWD
TAPE/TUNER
DBX
DOLBY-C
DOLBY
CD
DCUE
MS
2SC1815 x2
Q1302
Q1303
EMITTER FOLLOWER
IC1302 AN6291
dBX NR
T.P4
T.P6
T.P3
RMS
CCA
CP AMP
CURRENT SOURCE
TIMING CURRENT
ENCORD/DECORD LOGIC SWITCHING
IC1351 AN7372K
IC1352 AN7372K
DOLBY B/C NR
T.P1
T.P2
DOLBY +B
dBX +B
Q1802 2SC2120
Q1804 2SC2120
Q1801 2SC1815
dBX SWITCHING
MUSIC SENSOR PRE AMP
Q1750
Q1751
Q1752
2SC1815 x3
MUSIC SENSOR
IC1752 M51143AL
LIMITER AMP
CONVERTER
IC1751 μPD4052BC
MUSIC SENSOR SELECT SWITCHING
9 10 MODE Q ADJ R
H H PLAY DOL 3 R1756
H L PLAY DBX 2 R1791
L H CUE DOL 1 R1751
L L CUE DBX 0 R1755
M5 IC1751-9,10 PIN
H: Vcc
L: 0V

7375/7375E

IC1302 AN6291 dBX NR
2SC1815 x2
Q1302
Q1303
EMITTER FOLLOWER
VR1301 10K
VR1302 10K
VR1303 22K
CURRENT SOURCE
TIMING CURRENT
RMS
CCA
CP AMP
ENCORD /DECORD LOGIC SWITCHING
T.P3
T.P4
T.P5
T.P6
1/2
2/2
dBX AMP
IC 1303 NJM2041D
Q1301 2SA495
dBX SWITCHING
D1303 MA165
DOLBY/dBX/CD SWITCHING
IC 1353 μPD4052BC
BINARY TO 1-OF-4 DECODER WITH INHIBIT
LEVEL CONVERTER
SW
IC 1351 AN7372 K
IC 1352 AN7372 K
DOLBY B/C NR
T.P1
T.P2
DOLBY +B
dBX +B
MUSIC SENSOR PRE AMP
Q1802 2SC2120
Q1804 2SC2120
Q1801 2SC1815
dBX SWITCHING
ZD1801
ZD1802 MTZ39A
D1304 MA165
D1301 MA165
CD SWITCHING
Q1390 Q1391 2SC1815 x 2
D1305 MA165
D1302 MA165
V. STABILIZER
Q1903 2SC2120
Q1901 2SA608
Q1902 2SA608
ISOLATION AMP
IC 1901 NJM2041D
CD INPUT GAIN AMP
ZD1915 MTZ10-C
D1901 1N4003
D1902 1N4003
Q1750 Q1751 Q1752 2SC1815 x 3
MUSIC SENSOR
IC 1752 M51143 AL
LIMITER AMP
SWITCH CIRCUIT
CONVERTER (1)
CONVERTER (2)
FF1
FF2
Power reset music selection Control SW
REC
ZD1752 47EB3
IC 1751 μPD4052BC
MUSIC SENSOR SELECT SWITCHING
9 10 MODE Q ADJ R
H H PLAY DOL 3 R1756
H L PLAY DBX 2 R1791
L H CUE DOL 1 R1751
L L CUE DBX 0 R1755
M5 IC1751-9,10 PIN
H: Vcc
L: 0V
METAL
FWD
TAPE/TUNER
DBX
DOLBY-C
DOLBY
CD
DCUE
MS
CB1701
SUB WOOFER HI PASS FILTER
IC 1403 IC 1405 IC 1406 IC 1408 NJM2041D
IC 1404 NJM2041D
ELECTRONIC VOLUME CIRCUIT
IC 1401 LC7537
IC 1403
IC 1404
IC 1405
IC 1406
IC 1407 TC9154
IC 1408
S1401
ZD1499 MTZ5.1A
MUTE SW
SUB WOOFER LOW PASS FILTER ELECTRONIC VOLUME
SUBWF
MUTE
ACE
ADT
ACK
AST
CB1401
MUTING
Q1501
2SD1302 x 2
Q1502
Q1507 2SC1815
Q1508 2SA495
Q1861 Q1863
Q1862 Q1864
Q1864
V. STABILI
IC1302 IC1303 IC1351 IC1352 IC1353 IC1751 IC1752 IC1901 IC1403 IC1404 IC1401 IC1405 IC1406 IC1407 IC1408
Q1302,1303 Q1750～Q1752 Q1802 Q1804 Q1301 Q1801 Q1390 Q1903 Q1391 Q1901 Q1902 Q1501,150 Q1505～Q150
D1605 D1602 ZD1601 D1606 ZD1801 ZD1802 ZD1752 D1303 D1304 ZD1390 D1301 D1305 D1302 ZD1915 ZD1391 D1901,1902 ZD1499 ZD1803,1804


IC1403 IC1401 IC1405 IC1406 IC1402 IC1501 IC1502
IC1404 IC1407 IC1408 IC1503
IC1901
Q1902 Q1501,1502 Q1505～Q1509 Q1401 Q1861～Q1864 Q1904,1905 Q1851 Q1503,1504
ZD1391 ZD1499 D1501 ZD1803,1804 ZD1861,1862 D1863 D1851～D1855
Q1902 ZD1391 .1902
IC 1403 IC 1405 IC 1406 IC 1408 NJM2041D
IC 1404 NJM2041D
SUB WOOFER HI PASS FILTER
ELECTRONIC VOLUME CIRCUIT
IC 1401 LC7537
MUTING
IC 1501 NJM5532DD
PRE AMP
2SD1302 x 2
Q1501 Q1502
Q1503 Q1504
2SD1302 x 2
IC 1402 μPD4053BC
LEVEL CONVERTER
BINARY TO 1-OF-2 DECODER WITH INHIBIT
SW
IC 1502 NJM5532DD
IC 1502 NJM2041
PRE AMP
Q1401 2SC1815
SUB WOOFER SWITCHING
IC 1503 NJM 2041DD
2SD1302 x 2
Q1505 Q1506
MUTING
MUTE SW
S1501 MONO ST
Q1507 2SC1815
Q1508 2SA495
Q1509 2SA495
POWER OFF MUTE
2SC1815 x2 Q1904 Q1905
CD PAUSE
IC 1901 NJM2041D
CD INPUT GAIN AMP
IC 1407 TC9154
IC 1408
Q1863 Q1864 Q1861 Q1862
Q1861 Q1863 2SC1741
Q1862 Q1864 2SA854
V. STABILIZER
RELAY DRIVER
Q1851 2SD636
RL1801 L1801 L1802
SUB WOOFER LOW PASS FILTER ELECTRONIC VOLUME
CB1401 SUBWF MUTE ACE ADT ACK AST
CB1851 PAUSE OUT PAUSE IN REM OUT REM IN GND IGN BTT
CB1501 R L REM PAUSE IN G
E1002 OUTPUT DIN CONNECTOR REAR (MALE)
CB1502 R L REM PAUSE IN G
E1003 OUTPUT DIN CONNECTOR FRONT (MALE)
CB1503 R L REM PAUSE IN G
E1004 OUTPUT DIN CONNECTOR SUB WOOFER (MALE)
CB1902 L G R
CB1901 REM PAUSE OUT BTT IGN
INPUT DIN CONNECTOR E1009
CD IN (FEMALE)
CB1861 IGN GND +9.0 GND -9.0 +13 GND -13
CB1890
ACC POWER SUPPLY CABLE E1005
BATTERY POWER SUPPLY CABLE E1006
POWER ANTENNA CABLE E1007
GROUND CABLE E1008

IC1251-9,10 PIN

9	10	Q	MODE
H	H	3	FM
H	L	2	NC
L	H	1	AM
L	L	0	TAPE

H-VCC L-0V

IC1353-9,10 PIN

9	10	Q	MODE
H	H	3	DBX
H	L	2	NC
L	H	1	DOL
L	L	0	CD

H-VCC L-0V

	Q
	E
FWD	0 V
REV	0 V

	Q1351			Q1352			
	E	C	B	E	C	B	E
DOL-OFF	0 V	13.8V	0 V	10.3V	0 V	13.8V	0 V
DOL-B	0 V	13.8V	0 V	10.3V	5 V	13.8V	0 V
DOL-C	0 V	0 V	0.7 V	10.3V	10.3V	9.6V	0 V

	Q1606			Q1607			Q160	
	E	C	B	E	C	B	E	C
FM	0 V	0 V	9.9V	9.3V	13.7V	9.9V	0 V	0 V
AM	0 V	0.8V	0 V	0 V	13.7V	0 V	0 V	9.3V

	Q1609			Q1610			Q161	
	E	C	B	E	C	B	E	C
FM	0 V	13.7V	0 V	0.8V	0.8V	1.5V	13 V	13.7
AM	8.7V	13.7V	9.3V	0.8V	0.8V	1.5V	13 V	13.7

	Q1301			Q1801		
	E	C	B	E	C	B
DOL.	2.8V	2.8V	2.2V	0 V	9.8V	0 V
DBX	2.8V	0 V	4.2V	0 V	0 V	0.6V

IC1601

		#11. INT2		
		VCC	1/2 VC	C GND
#7. INT1	PULL UP	AIT-M2	AIT-M1	AIT-E
	PULL DWN	—	AOJ	AOA

MS IC1751-9,10P

9	10	MODE *	Q	ADJ
H	H	PLAY DOL	3	R17
H	L	PLAY DBX	2	R17
L	H	CUE. DOL	1	R17
L	L	CUE. DBX	0	R17

H-VCC L-0V

※ LEVEL

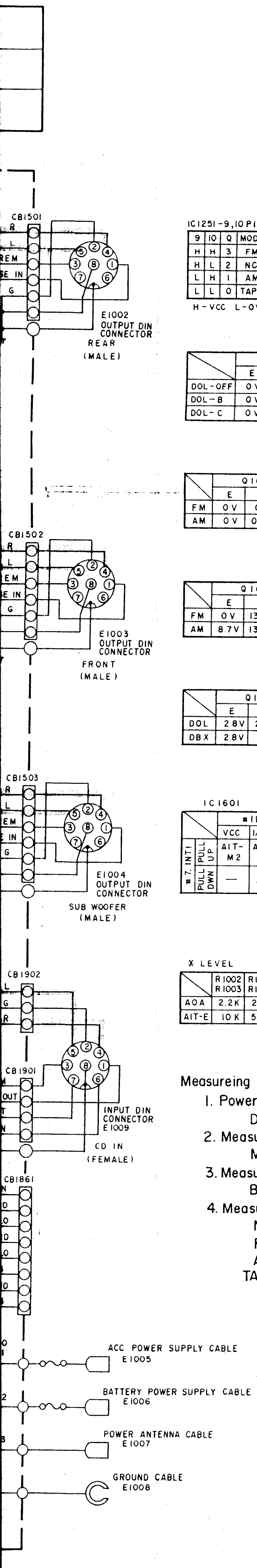
	R1002 R1003	R1004 R1005	R1007
AOA	2.2K	22K	2.2K
AIT-E	10K	5.6K	5.6K

For parts marked ※ refer to table below

	AO	EO
R1643	○	X
R1643E	X	○
C1699	X	○

Measureing Condition

1. Power Supply Voltage
   DC 14 V
2. Measuring Meter
   Multimeter
3. Measuring Point Reference
   Between GND
4. Measuring Condition
   NO Signal
   FM 98 MHz
   AM 999 kHz
   TAPE: Blank Tape



IC1251-9,10 PIN

9	10	Q	MODE
H	H	3	FM
H	L	2	NC
L	H	1	AM
L	L	0	TAPE

H-VCC L-OV

IC1353-9,10 PIN

9	10	Q	MODE
H	H	3	DBX
H	L	2	NC
L	H	1	DOL
L	L	0	CD

H-VCC L-OV

	Q1203		
	E	C	B
FWD	0 V	0 V	5\
REV	0 V	13.8V	0 V

	Q1351			Q1352			Q1353		
	E	C	B	E	C	B	E	C	B
DOL-OFF	0 V	13.8V	0 V	10.3V	0 V	13.8V	0 V	0 V	0.6 V
DOL-B	0 V	13.8V	0 V	10.3V	5 V	13.8V	0 V	5 V	0 V
DOL-C	0 V	0 V	0.7 V	10.3V	10.3V	9.6V	0 V	10.3V	0 V

	Q1606			Q1607			Q1608		
	E	C	B	E	C	B	E	C	B
FM	0 V	0 V	9.9V	9.3V	13.7V	9.9 V	0 V	0 V	6.7V
AM	0 V	0.8V	0 V	0 V	13.7V	0 V	0 V	9.3V	0V

	Q1609			Q1610			Q1611		
	E	C	B	E	C	B	E	C	B
FM	0 V	13.7V	0 V	0.8V	0.8 V	1.5 V	13 V	13.7 V	13.7V
AM	8.7V	13.7V	9.3V	0.8V	0.8 V	1.5 V	13 V	13.7 V	13.7V

	Q1301			Q1801		
	E	C	B	E	C	B
DOL	2.8V	2.8V	2.2V	0 V	9.8 V	0 V
DBX	2.8V	0 V	4.2V	0 V	0 V	0.6V

IC1601

		#11. INT2		
		VCC	1/2 VC	C GND
#7. INT1	PULL UP	AIT-M2	AIT-M1	AIT-E
	PULL DWN	—	AOJ	AOA

MS IC1751-9,10 PIN

9	10	MODE *	Q	ADJ.R
H	H	PLAY DOL	3	R1756
H	L	PLAY DBX	2	R1791
L	H	CUE. DOL	1	R1757
L	L	CUE. DBX	0	R1755

H-VCC L-OV

※ LEVEL

	R1002 R1003	R1004 R1005	R1007
AOA	2.2K	22K	2.2K
AIT-E	10K	5.6K	5.6K

For parts marked ※
refer to table below

	AO	EO
R1643	O	X
R1643E	X	O
C1699	X	O

Measureing Condition

1. Power Supply Voltage
   DC 14 V
2. Measuring Meter
   Multimeter
3. Measuring Point Reference
   Between GND
4. Measuring Condition
   NO Signal
   FM 98 MHz
   AM 999 kHz
   TAPE: Blank Tape

IC1251

	TAPE	FM	AM
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	0V
4	0V	0V	0V
5	0V	0V	0V
6	0V	0V	0V
7	-6.4V	-6.4V	-6.4V
8	0V	0V	0V
9	0.6V	4.7V	0V
10	0.6V	6.5V	6.5V
11	0V	0V	0V
12	0V	0V	0V
13	0V	0V	0V
14	0V	0V	0V
15	0V	0V	0V
16	6.5V	6.5V	6.5V

IC1302

	TAPE	FM	AM
1	3V	3V	3V
2	0V	0V	0V
3	0.8V	0.8V	0.8V
4	0.4V	0.6V	0.5V
5	0.6V	0.6V	0.6V
6	0.6V	0.6V	0.6V
7	1.3V	1.3V	1.3V
8	1.3V	1.3V	1.3V
9	0V	0V	0V
10	1.3V	1.3V	1.3V
11	3V	3V	3V
12	3V	3V	3V
13	3V	3V	3V
14	0V	0V	0V
15	1.3V	1.3V	1.3V
16	1.3V	1.3V	1.3V
17	0.6V	0.6V	0.6V
18	0.6V	0.6V	0.6V
19	0.4V	0.6V	0.5V
20	0.8V	0.8V	0.8V
21	0V	0V	0V
22	3V	3V	3V

IC1351, IC1352

	TAPE	FM	AM
1	0V	0V	0V
2	2.5V	2.5V	2.5V
3	5V	5V	5V
4	5V	5V	5V
5	5V	5V	5V
6	10V	10V	10V
7	5V	5V	5V
8	5V	5V	5V
9	5V	5V	5V
10	5V	5V	5V
11	5V	5V	5V
12	5V	5V	5V
13	4.9V	4.9V	4.9V
14	5V	5V	5V
15	5V	5V	5V
16	5V	5V	5V
17	5V	5V	5V
18	5V	5V	5V
19	5V	5V	5V
20	5V	5V	5V
21	5V	5V	5V
22	5V	5V	5V
23	5V	5V	5V
24	5V	5V	5V

IC1353

	TAPE	FM	AM
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	0V
4	1.1V	1.1V	1.1V
5	0V	0V	0V
6	0V	0V	0V
7	-6.5V	-6.5V	-6.5V
8	0V	0V	0V
9	0V	0V	0V
10	6.4V	6.4V	6.4V
11	-0.7V	-0.7V	-0.7V
12	0V	0V	0V
13	0V	0V	0V
14	0V	0V	0V
15	0V	0V	0V
16	6.5V	6.5V	6.5V

IC1402

	TAPE	FM	AM
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	0V
4	0V	0V	0V
5	0V	0V	0V
6	0V	0V	0V
7	-6.9V	-6.9V	-6.9V
8	0V	0V	0V
9	0V	0V	0V
10	0V	0V	0V
11	0V	0V	0V
12	0V	0V	0V
13	0V	0V	0V
14	0V	0V	0V
15	0V	0V	0V
16	6.8V	6.8V	6.8V

IC1407

	TAPE	FM	AM
1	-6.9V	-6.9V	-6.9V
2	0V	0V	0V
3	0V	0V	0V
4	0V	0V	0V
5	0V	0V	0V
6	0V	0V	0V
7	0V	0V	0V
8	0V	0V	0V
9	0V	0V	0V
10	0V	0V	0V
11	0V	0V	0V
12	0V	0V	0V
13	0V	0V	0V
14	0V	0V	0V
15	0V	0V	0V
16	6.8V	6.8V	6.8V

IC1601

	TAPE	FM	AM
1	0V	4.7V	4.7V
2	4.5V	4.5V	4.5V
3	4V	4V	4V
4	2.6V	2.6V	2.6V
5	0V	0V	0V
6	0V	0V	0V
7	0.4V	0.2V	0.3V
8	0V	3.7V	3.4V
9	0V	0V	0V
10	0V	0V	0V
11	0V	0V	0V
12	4.8V	4.8V	4.8V
13	4.8V	4.8V	4.8V
14	4.8V	4.8V	4.8V
15	4.8V	4.8V	4.8V
16	4.8V	4.8V	4.8V
17	4.8V	4.8V	4.8V
18	4.8V	4.8V	0V
19	4.8V	4.8V	4.8V
20	0V	0V	0V
21	0V	0V	0V
22	0V	0V	0V
23	0V	4.4V	4.6V
24	0V	1.4V	1.4V
25	4.8V	4.8V	4.8V
26	2.7V	2.7V	2.7V
27	2.4V	2.4V	2.4V
28	2.4V	2.4V	2.4V

IC1751

I	TAPE	FM	AM
1	1.4V	1.4V	1.4V
2	1.4V	1.4V	1.4V
3	1.4V	1.4V	1.4V
4	1.4V	1.4V	1.4V
5	1.4V	1.4V	1.4V
6	0V	0V	0V
7	-6.5V	-6.5V	-6.5V
8	0V	0V	0V
9	6.5V	6.5V	6.5V
10	6.5V	6.5V	6.5V
11	1.4V	1.4V	1.4V
10	0V	1.4V	1.4V
13	1.4V	1.4V	1.4V
14	1.4V	1.4V	1.4V
15	1.4V	1.4V	1.4V
16	6.5V	6.5V	6.5V

IC1752

	TAPE	FM	AM
1	1.4V	1.4V	1.4V
2	1.4V	1.4V	1.4V
3	0V	0V	0V
4	1.4V	1.4V	1.4V
5	0V	0V	0V
6	10.4V	10.4V	10.4V
7	6.8V	6.8V	6.8V
8	10.4V	10.4V	10.4V

Q1401

	SUB WOOFER	
	ON	OFF
E	0V	0V
C	6.8V	0V
B	0V	0.6V

Q1751

	dBX	Other
E	0V	0V
C	0V	6.4V
B	0.6V	0V

Q1752

	CUE	Other
E	0V	0V
C	0V	6.4V
B	0.6V	0V

Q1851

	POWER	
	ON	OFF
E	0V	0V
C	14V	0V
B	0.5V	0.7V

Q1904

	CD PAUSE	CD PLAY
E	0V	0V
C	13.4V	0V
B	0V	0.8V

Q1905

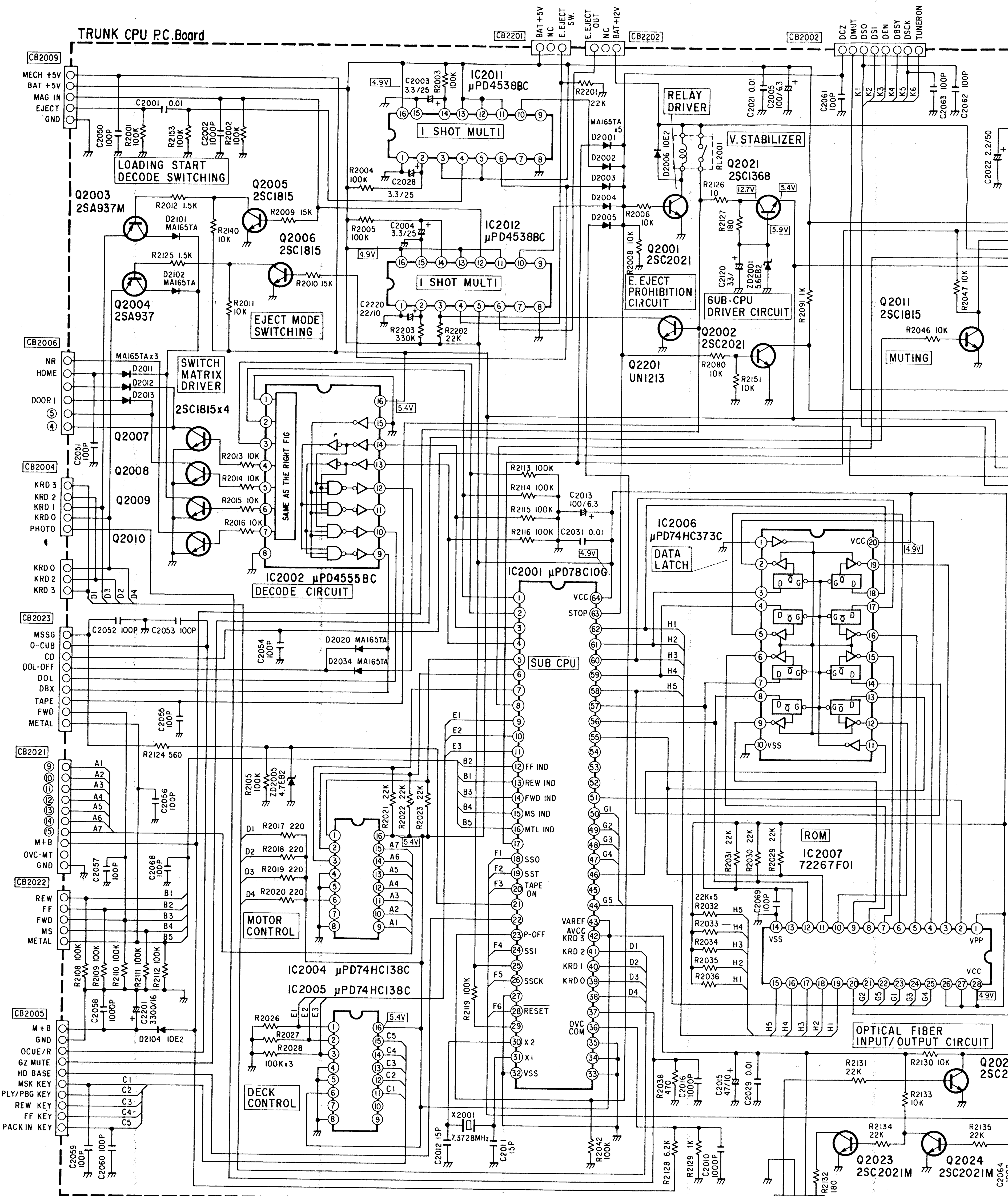
	CD PAUSE	Other
E	0V	0V
C	0V	6.5V
B	0.7V	0V

NOTES:

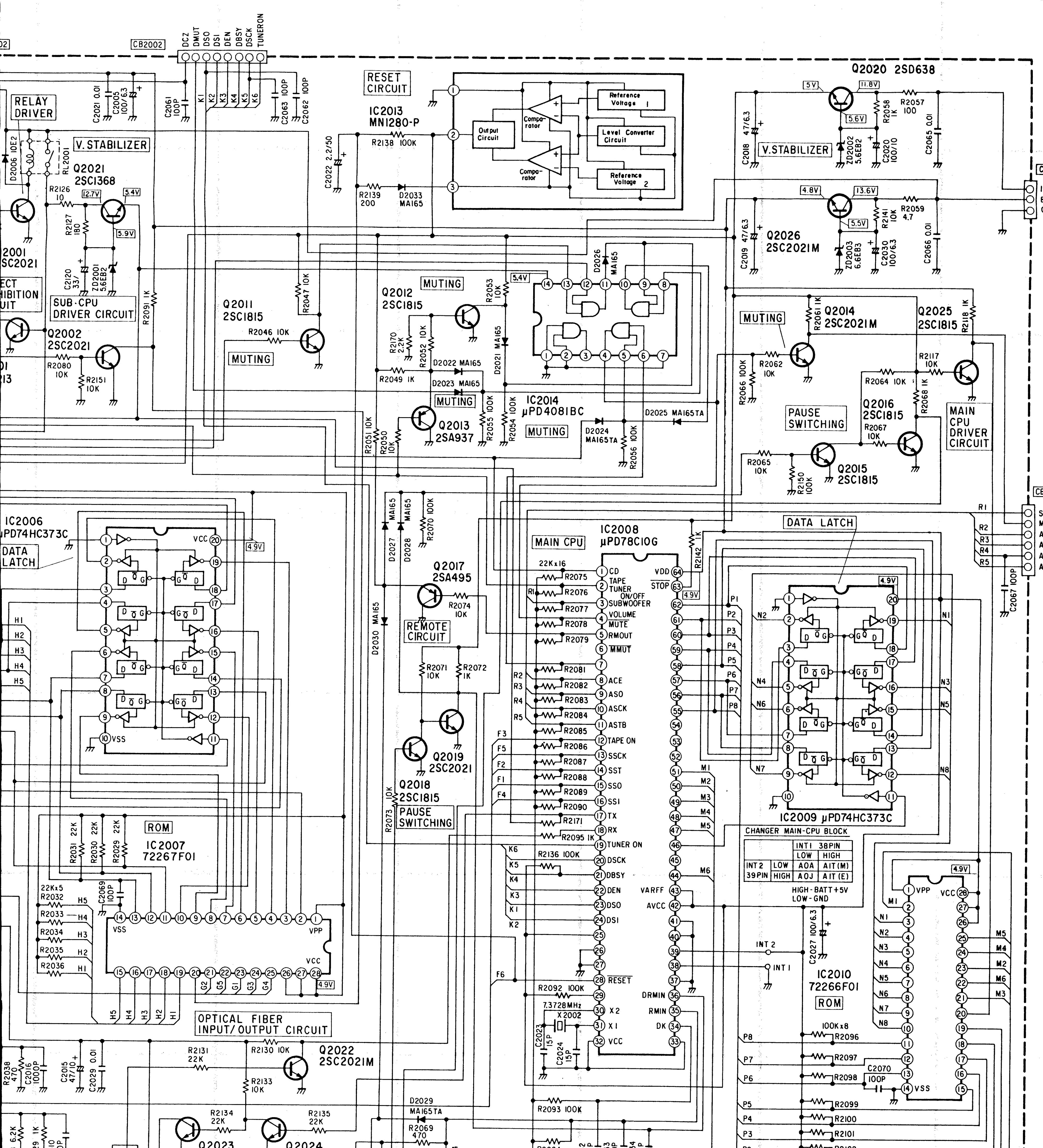
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (3/4)

IC	IC2002 IC2004 IC2005 IC2011 IC2012 IC2001 IC2006 IC2007
Transistor (Q)	Q2003～Q2006 Q2007～Q2010 Q2001 Q2201 Q2021 Q2002 Q2023 Q2011 Q2024 Q2022
Diode (D,ZD)	D2101 D2102 D2011～D2013 D2104 ZD2005 D2020 D2034 D2001～D2006 ZD2001


TRUNK CPU P.C.Board
CB2009
MECH +5V
BAT +5V
MAG IN
EJECT
GND
CB2201
BAT +5V
NC
E.EJECT SW.
E.EJECT OUT
NC
BAT+12V
CB2202
CB2002
DCZ
DMUT
DSO
DSI
DEN
DBSY
DSCK
TUNERON
LOADING START DECODE SWITCHING
Q2003 2SA937M
Q2004 2SA937
Q2005 2SC1815
Q2006 2SC1815
EJECT MODE SWITCHING
IC2011 μPD4538BC
I SHOT MULTI
IC2012 μPD4538BC
I SHOT MULTI
RELAY DRIVER
V.STABILIZER
Q2021 2SC1368
Q2001 2SC2021
E.EJECT PROHIBITION CIRCUIT
SUB·CPU DRIVER CIRCUIT
Q2002 2SC2021
Q2201 UN1213
Q2011 2SC1815
MUTING
CB2006
NR
HOME
DOOR I
SWITCH MATRIX DRIVER
2SC1815x4
Q2007
Q2008
Q2009
Q2010
SAME AS THE RIGHT FIG
IC2002 μPD4555BC
DECODE CIRCUIT
CB2004
KRD 3
KRD 2
KRD 1
KRD 0
PHOTO
CB2023
MSSG
O-CUB
CD
DOL-OFF
DOL
DBX
TAPE
FWD
METAL
CB2021
M+B
OVC-MT
GND
CB2022
REW
FF
FWD
MS
METAL
CB2005
M+B
GND
OCUE/R
GZ MUTE
HD BASE
MSK KEY
PLY/PBG KEY
REW KEY
FF KEY
PACK IN KEY
IC2006 μPD74HC373C
DATA LATCH
IC2001 μPD78C10G
SUB CPU
FF IND
REW IND
FWD IND
MS IND
MTL IND
SSO
SST
TAPE ON
P-OFF
SSI
SSCK
RESET
X2
X1
VSS
VCC
STOP
VAREF
AVCC
OVC COM
MOTOR CONTROL
IC2004 μPD74HC138C
IC2005 μPD74HC138C
DECK CONTROL
X2001 7.3728MHz
ROM
IC2007 72267F01
OPTICAL FIBER INPUT/OUTPUT CIRCUIT
Q2023 2SC2021M
Q2024 2SC2021M
CB2010
VO
GND
VDD
CAT

IC2006 IC2007 IC2013 IC2014 IC2008 IC2009 IC2010
Q2001 Q2201 Q2021 Q2002 Q2023 Q2011 Q2024 Q2022 Q2013 Q2012 Q2018 Q2017 Q2019 Q2020 Q2026 Q2014 Q2015 Q2016
D2006 ZD2001 D2033 D2021~D2023 D2027 D2028 D2030 D2029 ZD2004 D2024~D2026 ZD2002 ZD2003


CB2002
DCZ
DMUT
DSO
DSI
DEN
DBSY
DSCK
TUNERON
RELAY DRIVER
V. STABILIZER
Q2021 2SC1368
RL2001
D2006 10E2
SUB-CPU DRIVER CIRCUIT
Q2002 2SC2021
Q2011 2SC1815
MUTING
RESET CIRCUIT
IC2013 MN1280-P
Output Circuit
Comparator
Reference Voltage 1
Level Converter Circuit
Reference Voltage 2
Q2012 2SC1815
Q2013 2SA937
IC2014 µPD4081BC
Q2020 2SD638
Q2026 2SC2021M
Q2014 2SC2021M
Q2025 2SC1815
PAUSE SWITCHING
Q2016 2SC1815
Q2015 2SC1815
MAIN CPU DRIVER CIRCUIT
CB2001
IGH
BAT
GND
CB2060
SUBWF
MUTE
ACE
ADT
ACK
AST
IC2006 µPD74HC373C
DATA LATCH
Q2017 2SA495
REMOTE CIRCUIT
Q2019 2SC2021
Q2018 2SC1815
IC2008 µPD78C10G
MAIN CPU
CD
TAPE TUNER ON/OFF
SUBWOOFER
VOLUME
MUTE
RMOUT
MMUT
ACE
ASO
ASCK
ASTB
TAPE ON
SSCK
SST
SSO
SSI
TX
RX
TUNER ON
DSCK
DBSY
DEN
DSO
DSI
RESET
X2
X1
VCC
VDD
STOP
VARFF
AVCC
DRMIN
RMIN
DK
7.3728MHz X2002
IC2009 µPD74HC373C
CHANGER MAIN-CPU BLOCK
INT1 38PIN
INT2 39PIN
LOW AOA AIT(M)
HIGH AOJ AIT(E)
HIGH-BATT+5V LOW-GND
IC2010 72266F01
ROM
ROM
IC2007 72267F01
OPTICAL FIBER INPUT/OUTPUT CIRCUIT
Q2022 2SC2021M
Q2023 2SC2021M
Q2024 2SC2021M
CB2010
VO
GND
VDD
CAT
CB2061
REMOTE-OUT
REMOTE-IN
PAUSE-IN
PAUSE-OUT

Note : When replacing IC2007 & IC2010 always use ICs specified by ALPINE.

IC2002

	TAPE	FM
1	0V	0V
2	2.3V	2.3V
3	2.3V	2.3V
4	1.2V	1.2V
5	1.2V	1.2V
6	1.2V	1.2V
7	1.2V	1.2V
8	0V	0V
9	0V	0V
10	0V	0V
11	0V	0V
12	5.1V	5.1V
13	0V	0V
14	0V	0V
15	0V	0V
16	5.1V	5.1V

IC2004

	TAPE	FM
1	4.7V	4.7V
2	4.7V	4.7V
3	4.7V	4.7V
4	0V	0V
5	0V	0V
6	5.1V	5.1V
7	0V	0V
8	0V	0V
9	5.1V	5.1V
10	5.1V	5.1V
11	5.1V	5.1V
12	5.1V	5.1V
13	5.1V	5.1V
14	5.1V	5.1V
15	5.1V	5.1V
16	5.1V	5.1V

IC2005

	TAPE	FM
1	4.7V	0V
2	4.7V	0V
3	4.7V	0V
4	0V	0V
5	0V	0V
6	5.1V	5.1V
7	0V	5.1V
8	0V	0V
9	5.1V	5.1V
10	5.1V	5.1V
11	5.1V	5.1V
12	5.1V	5.1V
13	5.1V	5.1V
14	5.1V	5.1V
15	5.1V	0V
16	5.1V	5.1V

IC2006

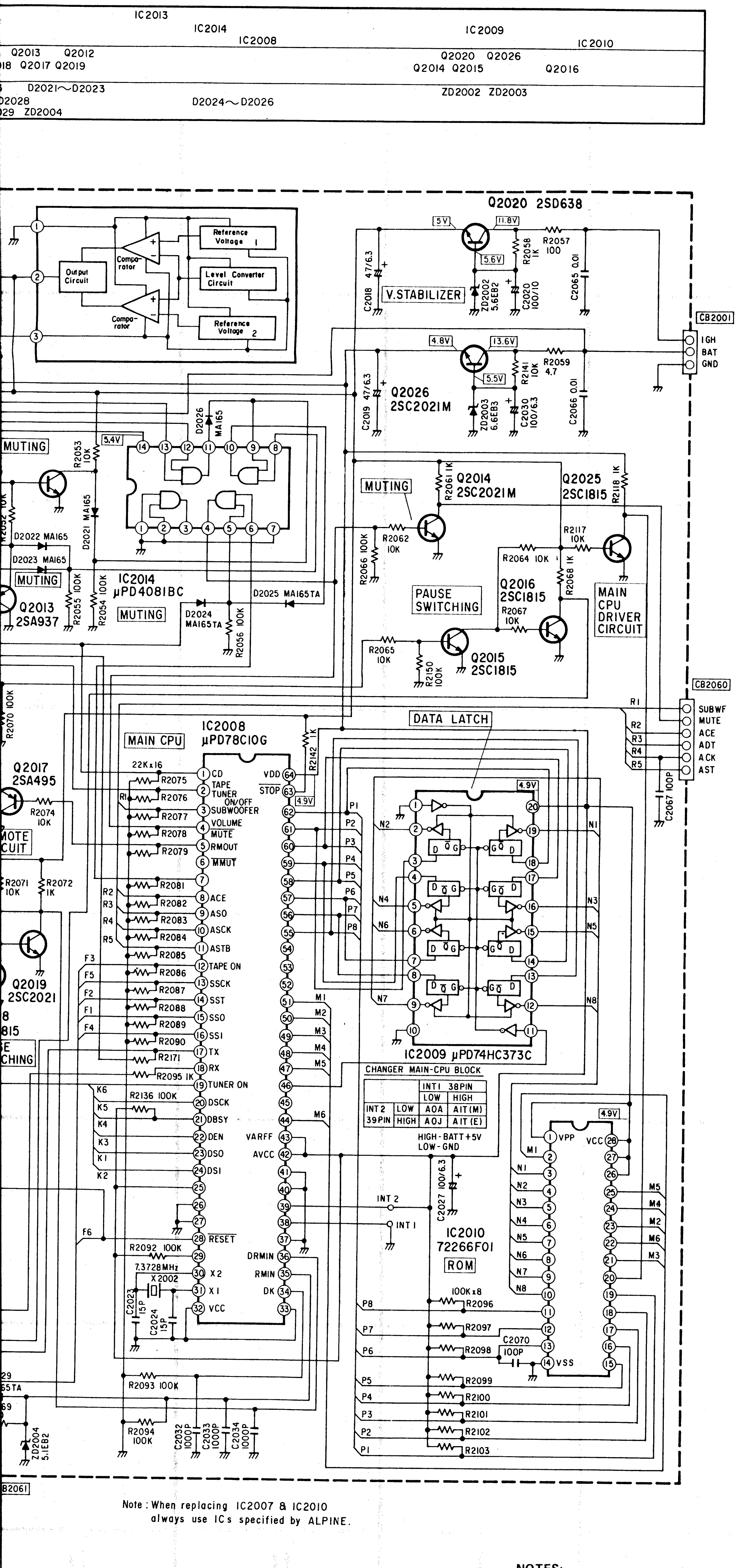
	TAPE	FM
1	0V	0V
2	2.6V	2.5V
3	2.6V	2.6V
4	2.3V	2.3V
5	2.4V	2.5V
6	2.3V	2.3V
7	2.2V	2.2V
8	2.2V	2.1V
9	2.3V	2.3V
10	0V	0V
11	0.9V	0.9V
12	2.2V	2.2V
13	2.1V	2.1V
14	2.3V	2.2V
15	2.5V	2.5V
16	2.4V	2.3V
17	2.4V	2.4V
18	2.1V	2.1V
19	2.7V	2.7V
20	4.7V	4.7V

IC2007

	TAPE	FM
1	4.7V	4.7V
2	2V	2.1V
3	2.7V	2.6V
4	2.6V	2.5V
5	2.4V	2.3V
6	2.4V	2.5V
7	2.5V	2.5V
8	2.3V	2.3V
9	2.3V	2.3V
10	2.2V	2.2V
11	2.1V	2.1V
12	2.2V	2.1V
13	2.2V	2.2V
14	0V	0V
15	2.3V	2.2V
16	2.3V	2.3V
17	2.4V	2.4V
18	2.6V	2.6V
19	2.1V	2V
20	0V	0V
21	1.7V	1.6V
22	2.9V	2.9V
23	1.2V	1.1V
24	2.6V	2.6V
25	2.9V	2.9V
26	4.7V	4.7V
27	4.7V	4.7V
28	4.7V	4.7V

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000}$


IC2013
IC2014
IC2008
IC2009
IC2010
Q2013 Q2012
Q2017 Q2019
Q2020 Q2026
Q2014 Q2015
Q2016
D2021~D2023
D2028
ZD2004
D2024~D2026
ZD2002 ZD2003
Q2020 2SD638
Reference Voltage 1
Output Circuit
Comparator
Level Converter Circuit
Reference Voltage 2
V.STABILIZER
ZD2002 5.6EB2
C2020 100/10
C2065 0.01
R2057 100
R2058 1K
CB2001
IGH
BAT
GND
Q2026 2SC2021M
ZD2003 6.6EB3
C2030 100/6.3
C2066 0.01
R2059 4.7
R2141 10K
MUTING
D2026 MA165
Q2014 2SC2021M
Q2025 2SC1815
R2061 1K
R2118 1K
R2062 10K
R2066 100K
R2117 10K
R2064 10K
R2068 1K
PAUSE SWITCHING
Q2016 2SC1815
R2067 10K
MAIN CPU DRIVER CIRCUIT
R2065 10K
R2150 100K
Q2015 2SC1815
IC2014 μPD4081BC
D2022 MA165
D2023 MA165
D2021 MA165
D2025 MA165TA
D2024 MA165TA
R2056 100K
Q2013 2SA937
Q2017 2SA495
Q2019 2SC2021
CB2060
SUBWF
MUTE
ACE
ADT
ACK
AST
C2067 100P
DATA LATCH
IC2008 μPD78C10G
MAIN CPU
22K×16
CD
TAPE
TUNER ON/OFF
SUBWOOFER
VOLUME
MUTE
RMOUT
MMUT
ACE
ASO
ASCK
ASTB
TAPE ON
SSCK
SST
SSO
SSI
TX
RX
TUNER ON
DSCK
DBSY
DEN
DSO
DSI
RESET
X2
X1
VCC
VDD
STOP
VARFF
AVCC
DRMIN
RMIN
DK
7.3728MHz X2002
IC2009 μPD74HC373C
CHANGER MAIN-CPU BLOCK
INT1 38PIN
LOW HIGH
INT2 39PIN
LOW AOA AIT(M)
HIGH AOJ AIT(E)
HIGH-BATT+5V
LOW-GND
INT2
INT1
C2027 100/6.3
IC2010 72266F01
ROM
100K×8
VPP
VCC
VSS
C2070 100P
R2093 100K
R2094 100K
ZD2004 5.1EB2
B2061

Note: When replacing IC2007 & IC2010 always use ICs specified by ALPINE.

IC2002

	TAPE	FM	AM
1	0V	0V	0V
2	2.3V	2.3V	2.3V
3	2.3V	2.3V	2.3V
4	1.2V	1.2V	1.2V
5	1.2V	1.2V	1.2V
6	1.2V	1.2V	1.2V
7	1.2V	1.2V	1.2V
8	0V	0V	0V
9	0V	0V	0V
10	0V	0V	0V
11	0V	0V	0V
12	5.1V	5.1V	5.1V
13	0V	0V	0V
14	0V	0V	0V
15	0V	0V	0V
16	5.1V	5.1V	5.1V

IC2004

	TAPE	FM	AM
1	4.7V	4.7V	4.7V
2	4.7V	4.7V	4.7V
3	4.7V	4.7V	4.7V
4	0V	0V	0V
5	0V	0V	0V
6	5.1V	5.1V	5.1V
7	0V	0V	0V
8	0V	0V	0V
9	5.1V	5.1V	5.1V
10	5.1V	5.1V	5.1V
11	5.1V	5.1V	5.1V
12	5.1V	5.1V	5.1V
13	5.1V	5.1V	5.1V
14	5.1V	5.1V	5.1V
15	5.1V	5.1V	5.1V
16	5.1V	5.1V	5.1V

IC2005

	TAPE	FM	AM
1	4.7V	0V	0V
2	4.7V	0V	0V
3	4.7V	0V	0V
4	0V	0V	0V
5	0V	0V	0V
6	5.1V	5.1V	5.1V
7	0V	5.1V	5.1V
8	0V	0V	0V
9	5.1V	5.1V	5.1V
10	5.1V	5.1V	5.1V
11	5.1V	5.1V	5.1V
12	5.1V	5.1V	5.1V
13	5.1V	5.1V	5.1V
14	5.1V	5.1V	5.1V
15	5.1V	0V	0V
16	5.1V	5.1V	5.1V

IC2006

	TAPE	FM	AM
1	0V	0V	0V
2	2.6V	2.5V	2.5V
3	2.6V	2.6V	2.5V
4	2.3V	2.3V	2.3V
5	2.4V	2.5V	2.5V
6	2.3V	2.3V	2.3V
7	2.2V	2.2V	2.2V
8	2.2V	2.1V	2.1V
9	2.3V	2.3V	2.3V
10	0V	0V	0V
11	0.9V	0.9V	0.9V
12	2.2V	2.2V	2.2V
13	2.1V	2.1V	2.1V
14	2.3V	2.2V	2.2V
15	2.5V	2.5V	2.5V
16	2.4V	2.3V	2.3V
17	2.4V	2.4V	2.4V
18	2.1V	2.1V	2.1V
19	2.7V	2.7V	2.7V
20	4.7V	4.7V	4.7V

IC2007

	TAPE	FM	AM
1	4.7V	4.7V	4.7V
2	2V	2.1V	2.1V
3	2.7V	2.6V	2.6V
4	2.6V	2.5V	2.5V
5	2.4V	2.3V	2.3V
6	2.4V	2.5V	2.5V
7	2.5V	2.5V	2.5V
8	2.3V	2.3V	2.3V
9	2.3V	2.3V	2.2V
10	2.2V	2.2V	2.2V
11	2.1V	2.1V	2.1V
12	2.2V	2.1V	2.1V
13	2.2V	2.2V	2.2V
14	0V	0V	0V
15	2.3V	2.2V	2.2V
16	2.3V	2.3V	2.3V
17	2.4V	2.4V	2.4V
18	2.6V	2.6V	2.6V
19	2.1V	2V	2V
20	0V	0V	0V
21	1.7V	1.6V	1.6V
22	2.9V	2.9V	2.9V
23	1.2V	1.1V	1.1V
24	2.6V	2.6V	2.6V
25	2.9V	2.9V	2.9V
26	4.7V	4.7V	4.7V
27	4.7V	4.7V	4.7V
28	4.7V	4.7V	4.7V

IC2009

	TAPE	FM	AM
1	0V	0V	0V
2	1.7V	1.7V	1.7V
3	2.2V	2.2V	2.2V
4	2.4V	2.4V	2.3V
5	2.7V	2.6V	2.6V
6	2.3V	2.3V	2.3V
7	2.1V	2.1V	2.1V
8	2.1V	2.1V	2.1V
9	2.4V	2.4V	2.4V
10	0V	0V	0V
11	0.9V	0.9V	0.9V
12	2.3V	2.3V	2.3V
13	2.2V	2.2V	2.2V
14	2.6V	2.6V	2.6V
15	2.6V	2.6V	2.6V
16	2.5V	2.5V	2.5V
17	2.4V	2.4V	2.4V
18	2.1V	2.1V	2.1V
19	2.9V	2.9V	2.9V
20	4.7V	4.7V	4.7V

IC2010

	TAPE	FM	AM
1	4.7V	4.7V	4.7V
2	0.8V	0.8V	0.8V
3	2.9V	2.9V	2.9V
4	1.7V	1.7V	1.8V
5	2.5V	2.5V	2.5V
6	2.7V	2.6V	2.6V
7	2.6V	2.7V	2.7V
8	2.3V	2.3V	2.3V
9	2.4V	2.4V	2.4V
10	2.3V	2.3V	2.3V
11	2.2V	2.2V	2.2V
12	2.1V	2.1V	2.1V
13	2.1V	2.1V	2.1V
14	0V	0V	0V
15	2.6V	2.6V	2.6V
16	2.4V	2.3V	2.4V
17	2.4V	2.4V	2.4V
18	2.2V	2.2V	2.2V
19	2.1V	2.1V	2.2V
20	0V	0V	0V
21	2.4V	2.4V	2.4V
22	3.1V	3.1V	3.1V
23	3.9V	3.9V	3.8V
24	3.4V	3.4V	3.4V
25	3.3V	3.3V	3.3V
26	4.7V	4.7V	4.7V
27	4.7V	4.7V	4.7V
28	4.7V	4.7V	4.7V

IC2011

	TAPE	FM	AM
1	0V	0V	0V
2	4.7V	4.7V	4.7V
3	4.7V	4.7V	4.7V
4	0V	0V	0V
5	4.7V	4.7V	4.7V
6	0V	0V	0V
7	4.7V	4.7V	4.7V
8	0V	0V	0V
9	4.7V	4.7V	4.7V
10	0V	0V	0V
11	4.7V	4.7V	4.7V
12	4.7V	4.7V	4.7V
13	4.7V	4.7V	4.7V.
14	4.7V	4.7V	4.7V
15	0V	0V	0V
16	4.7V	4.7V	4.7V

IC2012

	TAPE	FM	AM
1	0V	0V	0V
2	0V	0V	0V
3	4.7V	4.7V	4.7V
4	4.7V	4.7V	4.7V
5	4.7V	4.7V	4.7V
6	0V	0V	0V
7	4.7V	4.7V	4.7V
8	0V	0V	0V
9	4.7V	4.7V	4.7V
10	0V	0V	0V
11	4.7V	4.7V	4.7V
12	0V	0V	0V
13	4.7V	4.7V	4.7V
14	4.7V	4.7V	4.7V
15	0V	0V	0V
16	4.7V	4.7V	4.7V

IC2014

	TAPE	FM	AM
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	0V
4	4.8V	4.8V	4.8V
5	4.6V	4.6V	4.6V
6	4.7V	4.7V	4.7V
7	0V	0V	0V
8	4V	3.8V	3.8V
9	4.6V	0V	4V
10	5.1V	5.1V	5.1V
11	5.1V	0V	0V
12	4.7V	0V	0V
13	4.9V	4.9V	4.9V
14	5.1V	5.1V	5.1V

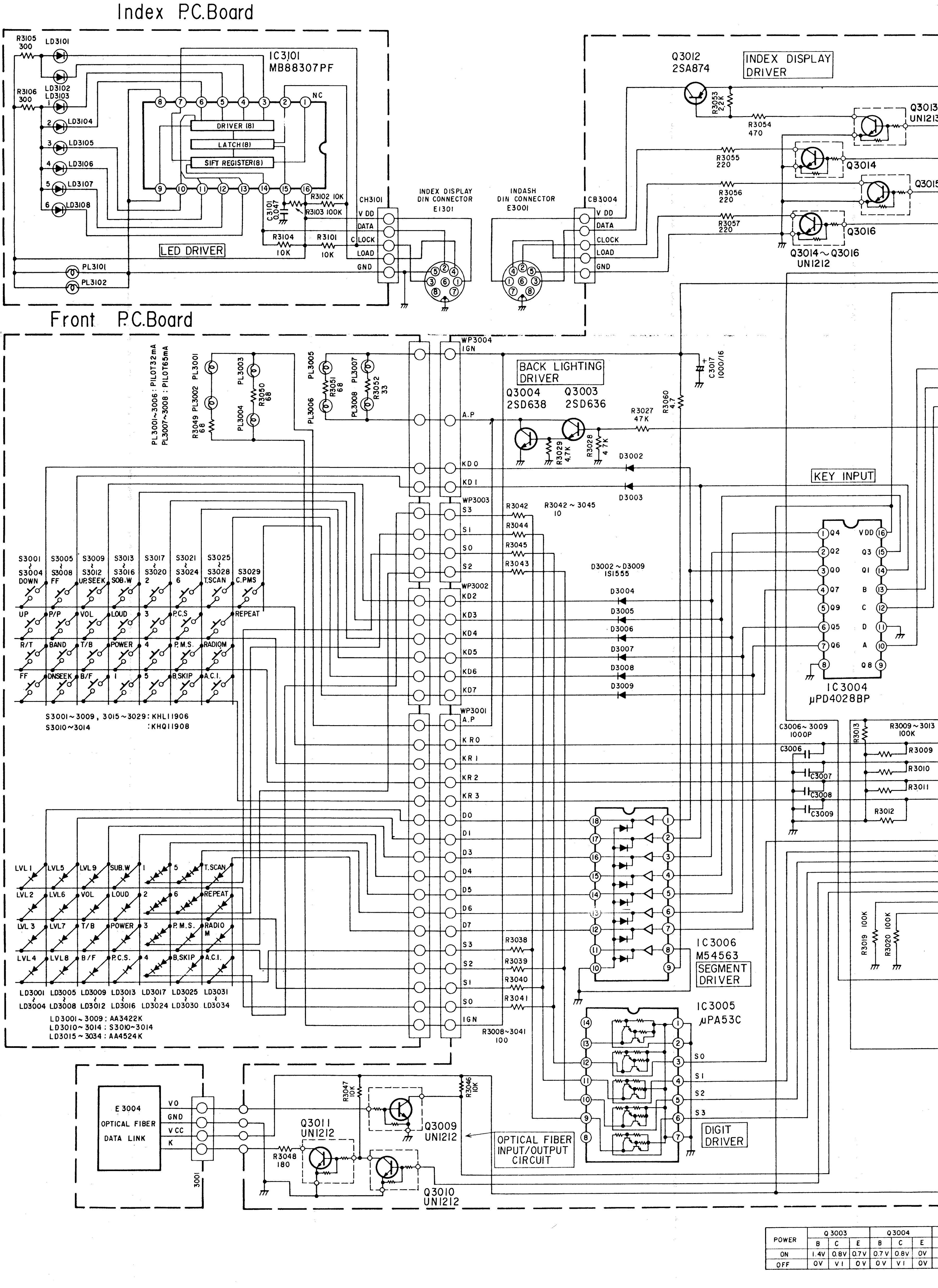
NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1.000.000}$

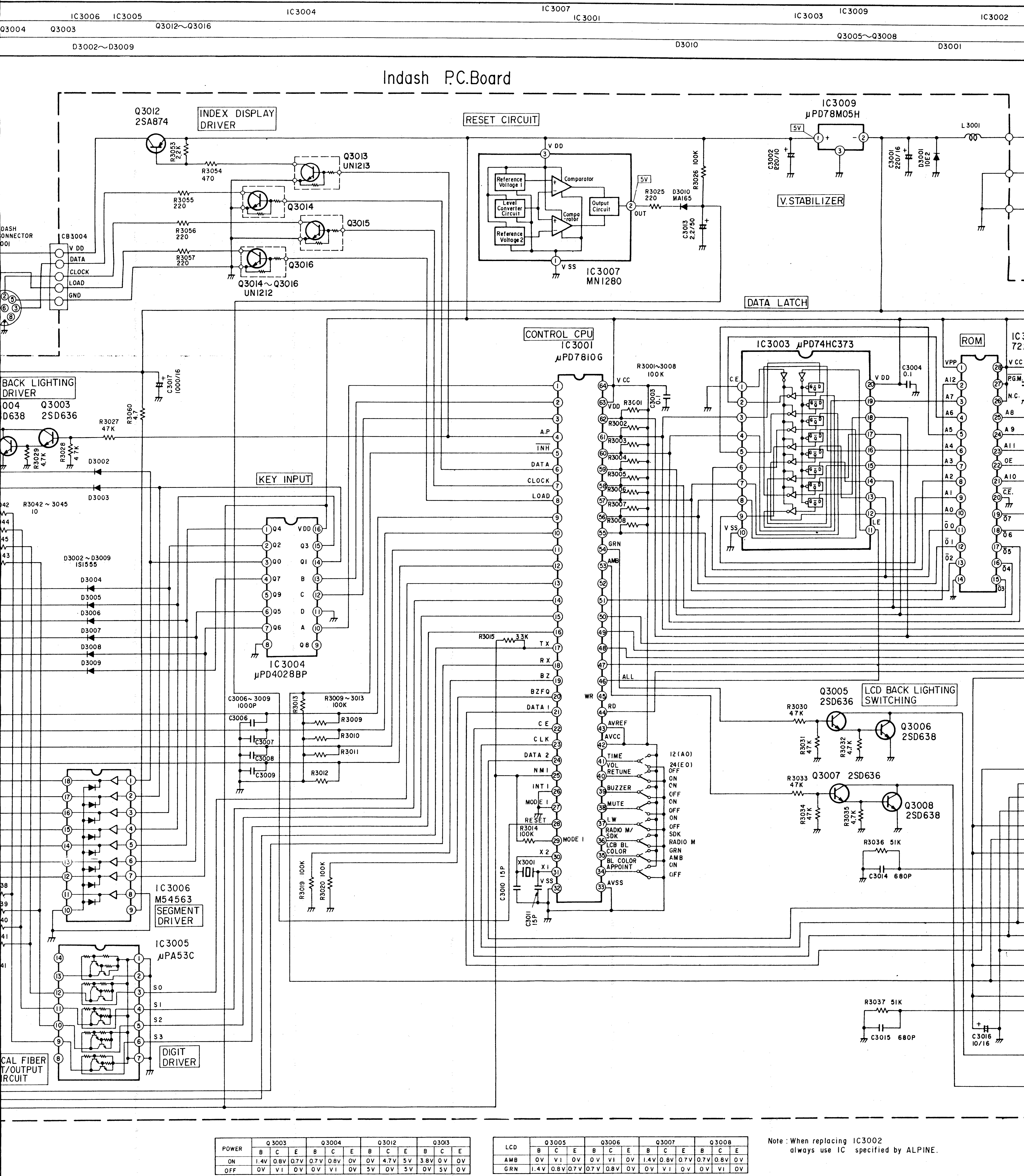
7375/7375E

Schematic Diagram (4/4)

IC	IC3101 IC3006 IC3005 IC3004
Transistor(Q)	Q3011 Q3010 Q3009 Q3004 Q3003 Q3012～Q3016
Diode (D, LD)	LD3101～LD3108 LD3001～LD3034 D3002～D3009


Index P.C.Board
R3105 300
LD3101
R3106 300
LD3102
LD3103
LD3104
LD3105
LD3106
LD3107
LD3108
IC3101 MB88307PF
NC
DRIVER (8)
LATCH (8)
SIFT REGISTER (8)
R3102 10K
R3103 100K
C3101 0.047
CH3101
V DD
DATA
CLOCK
LOAD
GND
R3104 10K
R3101 10K
LED DRIVER
PL3101
PL3102
INDEX DISPLAY DIN CONNECTOR E1301
INDASH DIN CONNECTOR E3001
CB3004
Q3012 2SA874
INDEX DISPLAY DRIVER
R3053 2.2K
R3054 470
R3055 220
R3056 220
R3057 220
Q3013 UN1213
Q3014
Q3015
Q3016
Q3014～Q3016 UN1212
Front P.C.Board
PL3001～3006 : PIL0732mA
PL3007～3008 : PIL0765mA
PL3001 PL3002 PL3003 PL3004 PL3005 PL3006 PL3007 PL3008
R3049 68
R3050 68
R3051 68
R3052 33
WP3004
IGN
A.P
BACK LIGHTING DRIVER
Q3004 2SD638
Q3003 2SD636
R3029 4.7K
R3028 4.7K
R3027 47K
R3060 4.7
C3017 1000/16
KD0
KD1
D3002
D3003
KEY INPUT
WP3003
S3
S1
S0
S2
R3042 R3044 R3045 R3043
R3042～3045 10
D3002～D3009 1S1555
D3004 D3005 D3006 D3007 D3008 D3009
WP3002
KD2 KD3 KD4 KD5 KD6 KD7
S3001～S3004 DOWN
S3005～S3008 FF
S3009～S3012 UP.SEEK
S3013～S3016 SOB.W
S3017～S3020 2
S3021～S3024 6
S3025～S3028 T.SCAN
S3029 C.PMS
UP P/P VOL LOUD 3 P.C.S REPEAT
R/T BAND T/B POWER 4 P.M.S. RADIOM
FF DNSEEK B/F 1 5 B.SKIP A.C.I.
S3001～3009, 3015～3029 : KHL11906
S3010～3014 : KHQ11908
WP3001
A.P
KR0 KR1 KR2 KR3
D0 D1 D3 D4 D5 D6 D7
S3 S2 S1 S0 IGN
R3038 R3039 R3040 R3041
R3008～3041 100
IC3004 μPD4028BP
Q4 Q2 Q0 Q7 Q9 Q5 Q6 VDD Q3 Q1 B C D A Q8
C3006～3009 1000P
R3013
R3009～3013 100K
C3006 C3007 C3008 C3009
R3009 R3010 R3011 R3012
R3019 100K
R3020 100K
IC3006 M54563
SEGMENT DRIVER
IC3005 μPA53C
S0 S1 S2 S3
DIGIT DRIVER
LVL1 LVL5 LVL9 SUB.W 1 5 T.SCAN
LVL2 LVL6 VOL LOUD 2 6 REPEAT
LVL3 LVL7 T/B POWER 3 P.M.S. RADIO M
LVL4 LVL8 B/F P.C.S. 4 B.SKIP A.C.I.
LD3001～LD3004 LD3005～LD3008 LD3009～LD3012 LD3013～LD3016 LD3017～LD3024 LD3025～LD3030 LD3031～LD3034
LD3001～3009 : AA3422K
LD3010～3014 : S3010～3014
LD3015～3034 : AA4524K
E3004 OPTICAL FIBER DATA LINK
VO GND VCC K
3001
R3047 10K
R3046 10K
Q3011 UN1212
R3048 180
Q3009 UN1212
Q3010 UN1212
OPTICAL FIBER INPUT/OUTPUT CIRCUIT

POWER	Q3003			Q3004		
	B	C	E	B	C	E
ON	1.4V	0.8V	0.7V	0.7V	0.8V	0V
OFF	0V	V1	0V	0V	V1	0V


IC3006 IC3005 IC3004 IC3007 IC3001 IC3003 IC3009 IC3002
Q3004 Q3003 Q3012~Q3016 Q3005~Q3008
D3002~D3009 D3010 D3001
Indash P.C.Board
Q3012 2SA874
INDEX DISPLAY DRIVER
Q3013 UN1213
Q3014 Q3015 Q3016
Q3014~Q3016 UN1212
R3053 2.2K
R3054 470
R3055 220
R3056 220
R3057 220
DASH CONNECTOR
CB3004
V DD
DATA
CLOCK
LOAD
GND
RESET CIRCUIT
Reference Voltage 1
Level Converter Circuit
Reference Voltage 2
Comparator
Comparator
Output Circuit
V DD
V SS
OUT
5V
IC3007 MN1280
R3025 220
D3010 MA165
R3026 100K
C3013 2.2/50
IC3009 μPD78M05H
C3002 220/10
C3001 220/16
D3001 10E2
L3001
V.STABILIZER
DATA LATCH
IC3003 μPD74HC373
C3004 0.1
C.E.
LE
ROM
VPP
V CC
P.G.M.
N.C.
A12 A7 A6 A5 A4 A3 A2 A1 A0 A8 A9 A11 OE A10 CE
O0 O1 O2 O3 O4 O5 O6 O7
BACK LIGHTING DRIVER
Q3004 2SD638 Q3003 2SD636
C3017 1000/16
R3060 4.7
R3027 47K
R3028 4.7K
R3029 4.7K
D3002
D3003
R3042~3045 10
D3002~D3009 1S1555
D3004 D3005 D3006 D3007 D3008 D3009
KEY INPUT
IC3004 μPD4028BP
Q4 Q2 Q0 Q7 Q9 Q5 Q6 VDD Q3 Q1 B C D A Q8
CONTROL CPU IC3001 μPD7810G
R3001~3008 100K
C3003 0.1
VDD
A.P
INH
DATA
CLOCK
LOAD
TX RX BZ BZFQ DATA 1 CE CLK DATA 2 NMI INT1 MODE 1 RESET MODE 1 X2 X1 VSS
WR RD AVREF AVCC
TIME
VOL RETUNE
BUZZER
MUTE
LW
RADIO M/SDK
LCB BL COLOR
BL COLOR APPOINT
AVSS
GRN
AMB
ALL
12 (A0)
24 (E0)
OFF ON ON OFF ON OFF ON OFF SDK RADIO M GRN AMB ON OFF
R3015 33K
R3014 100K
X3001
C3010 15P
C3011 15P
C3006~3009 1000P
R3013
R3009~3013 100K
R3009 R3010 R3011 R3012
C3006 C3007 C3008 C3009
R3019 100K
R3020 100K
IC3006 M54563
SEGMENT DRIVER
IC3005 μPA53C
S0 S1 S2 S3
DIGIT DRIVER
OPTICAL FIBER INPUT/OUTPUT CIRCUIT
Q3005 2SD636
LCD BACK LIGHTING SWITCHING
Q3006 2SD638
R3030 47K
R3031 47K
R3032 4.7K
R3033 47K
Q3007 2SD636
Q3008 2SD638
R3034 47K
R3035 4.7K
R3036 51K
C3014 680P
R3037 51K
C3015 680P
C3016 10/16

POWER	Q3003			Q3004			Q3012			Q3013		
	B	C	E	B	C	E	B	C	E	B	C	E
ON	1.4V	0.8V	0.7V	0.7V	0.8V	0V	0V	4.7V	5V	3.8V	0V	0V
OFF	0V	VI	0V	0V	VI	0V	5V	0V	5V	0V	5V	0V

LCD	Q3005			Q3006			Q3007			Q3008		
	B	C	E	B	C	E	B	C	E	B	C	E
AMB	0V	VI	0V	0V	VI	0V	1.4V	0.8V	0.7V	0.7V	0.8V	0V
GRN	1.4V	0.8V	0.7V	0.7V	0.8V	0V	0V	VI	0V	0V	VI	0V

※ VI: IGNITION VOLTAGE

Note: When replacing IC3002 always use IC specified by ALPINE.

NOTE

1. Al

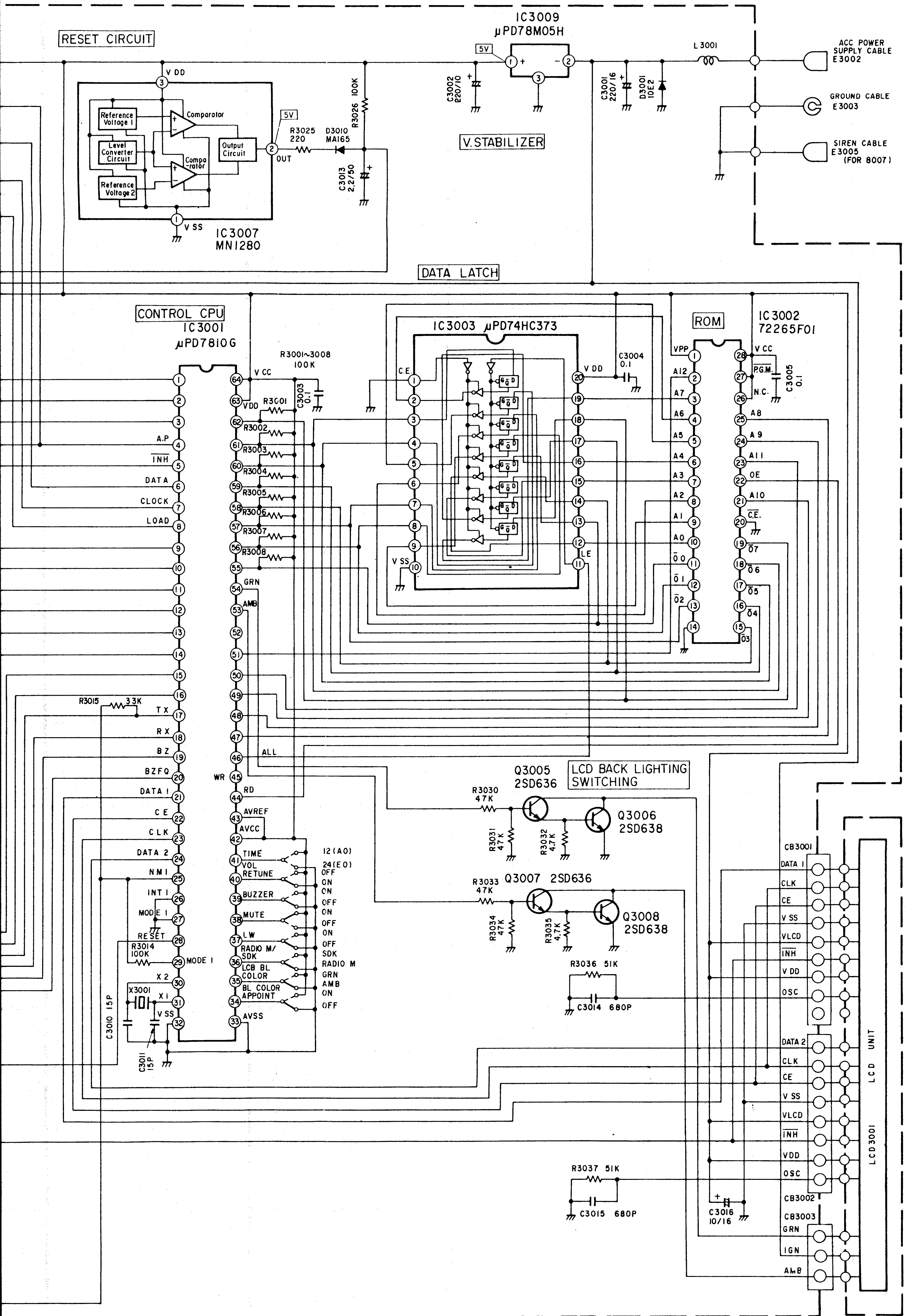
2. Al

IC3007 IC3001 IC3003 IC3009 IC3002

Q3005~Q3008

D3010 D3001

sh P.C.Board


RESET CIRCUIT
V DD
Reference Voltage 1
Comparator
Level Converter Circuit
Output Circuit
Compa-rator
Reference Voltage 2
V SS
IC3007
MN1280
5V
OUT
R3025 220
D3010 MA165
R3026 100K
C3013 2.2/50
IC3009
μPD78M05H
5V
C3002 220/10
V.STABILIZER
C3001 220/16
D3001 10E2
L3001
ACC POWER SUPPLY CABLE E3002
GROUND CABLE E3003
SIREN CABLE E3005 (FOR 8007)
DATA LATCH
CONTROL CPU
IC3001
μPD7810G
R3001~3008 100K
C3003 0.1
V CC
VDD
A.P
INH
DATA
CLOCK
LOAD
GRN
AMB
R3015 3.3K
TX
RX
BZ
BZFQ
DATA 1
CE
CLK
DATA 2
NMI
INT1
MODE 1
RESET
R3014 100K
MODE 1
X2
X3001
X1
V SS
C3010 15P
C3011 15P
WR
ALL
RD
AVREF
AVCC
TIME
VOL RETUNE
BUZZER
MUTE
LW
RADIO M/ SDK
LCB BL COLOR
BL COLOR APPOINT
AVSS
12(A0)
24(E0)
OFF
ON
ON
OFF
ON
OFF
ON
OFF
SDK
RADIO M
GRN
AMB
ON
OFF
IC3003 μPD74HC373
C.E
V DD
C3004 0.1
V SS
LE
ROM
IC3002
72265F01
VPP
A12
A7
A6
A5
A4
A3
A2
A1
A0
O0
O1
O2
V CC
P.G.M.
N.C.
C3005 0.1
A8
A9
A11
OE
A10
CE
O7
O6
O5
O4
O3
Q3005 2SD636
LCD BACK LIGHTING SWITCHING
R3030 47K
R3031 47K
R3032 4.7K
Q3006 2SD638
R3033 47K
Q3007 2SD636
R3034 47K
R3035 4.7K
Q3008 2SD638
R3036 51K
C3014 680P
R3037 51K
C3015 680P
C3016 10/16
CB3001
DATA 1
CLK
CE
V SS
VLCD
INH
V DD
OSC
DATA 2
CLK
CE
V SS
VLCD
INH
VDD
OSC
CB3002
CB3003
GRN
IGN
AMB
LCD UNIT
LCD3001

Q3013		
B	C	E
3.8V	0V	0V
0V	5V	0V

LCD	Q3005			Q3006			Q3007			Q3008		
	B	C	E	B	C	E	B	C	E	B	C	E
AMB	0V	VI	0V	0V	VI	0V	1.4V	0.8V	0.7V	0.7V	0.8V	0V
GRN	1.4V	0.8V	0.7V	0.7V	0.8V	0V	0V	VI	0V	0V	VI	0V

·※· VI: IGNITION VOLTAGE

Note : When replacing IC3002
always use IC specified by ALPINE.

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Electrical Parts List

Resistors: Carbon resistors under ¼ watts are not mentioned in the parts list, please confirm them by schematic diagram.
uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
	Reverse P.C. Board	
Photos		
PT701	51T63433F01	Sensor ON2170
PT702	51T63433F01	Sensor ON2170
	GZ Control P.C. Board	
IC's		
IC701	51T68339F01	68339F01
IC702	51T63506F01	PU4124
IC703	51T63849F01	BA6109
Transistors		
Q701	48T52549F01	2SD973A
Q702	48S40627U07	2SD636
Q703	48T70213F01	2SB911M
Q704	48S40627U07	2SD636
Q705	48T70213F01	2SB911M
Diodes		
D701	48T44813F01	MA165TA
D702	48T44813F01	MA165TA
ZD701	48T68699F15	Zener, MTZ6.2–A
ZD702	48T68699F10	Zener, MTZ5.1–B
ZD703	48T68699F10	Zener, MTZ5.1–B
ZD704	48T68699F14	Zener, MTZ5.6–C
ZD705	48T68699F20	Zener, MTZ6.8–C
ZD706	48T68699F09	Zener, MTZ5.1–A

Symbol No.	Part No.	Description
Capacitors		
C701	23S40657F02	Electrolytic, 47uF/6.3V
C702	23S40657F02	Electrolytic, 47uF/6.3V
C703	08T52714F10	Ceramic, 5600pF
C704	08T52714F19	Ceramic, 0.033uF
C705	23S61523F12	Electrolytic, 10uF/16V
C706	23S57422F05	Electrolytic, 1uF/50V
C707	23C44780P16	Electrolytic, 100uF/16V
C708	08T52714F13	Ceramic, 0.01uF
C709	08T57705F79	Mylar, 0.1uF
C710	23S40657F28	Electrolytic, 1uF/50V
Resistors		
R702	06S53330F81	Chip, 15K ohm1/8W
R703	06S53330F88	Chip, 30K ohm1/8W
R704	06S53330F85	Chip, 22K ohm1/8W
R705	06S53330F71	Chip, 5.6K ohm1/8W
R706	06S53330F47	Chip, 560 ohm1/8W
R707	06S53330F47	Chip, 560 ohm1/8W
R709	06S53330F85	Chip, 22K ohm1/8W
R712	06C43205J26	Metal Film, 4.7 ohm1/2W
R713	06S53330F55	Chip, 1.2K ohm1/8W
R714	06S53330F55	Chip, 1.2K ohm1/8W
R715	06S53330F55	Chip, 1.2K ohm1/8W
R716	06T51015F02	Carbon Film, 3.3 ohm1/2W
R719	06T70072F53	Chip, 1K ohm1/4W
R721	06S53330F51	Chip, 820 ohm1/8W
R722	06S53330F89	Chip, 33K ohm1/8W

Symbol No.	Part No.	Description
HD EQ P.C. Board		
IC		
IC1201	51T69242F02	NJM5532M
Transistor		
Q1203	48T62963F02	DTC114
Diode		
D1201	48S40477U01	IN4003
Relay		
RL1201	80T68404F01	G5A
Capacitors		
C1201	08T74631F13	Polypropylene 330pF
C1202	08T74631F13	Polypropylene 330pF
C1203	08T52448F38	Polypropylene 0.011uF
C1204	08T52448F38	Polypropylene 0.011uF
C1209	23S40657F14	Electrolytic, 100uF/16V
C1210	23S40657F14	Electrolytic, 100uF/16V
C1212	23T41366F39	Electrolytic (B.P.) 0.47uF/50V
C1213	23T41366F39	Electrolytic (B.P.) 0.47uF/50V
C1214	23T43247F21	Electrolytic, 100uF/10V
C1215	23T43247F21	Electrolytic, 100uF/10V
Resistors		
R1207	06T70340F02	Metal Film, 316K ohm
R1208	06T70340F02	Metal Film, 316K ohm

Symbol No.	Part No.	Description
Analog P.C. Board		
IC's		
IC1251	51T72306F01	μ PD4052BC
or	51T68387F01	TC4052BP
IC1302	51T56606F01	AN6291
IC1303	51T52155F01	NJM2041D
IC1351	51T72268F01	AN7372K
IC1352	51T72268F01	AN7372K
IC1353	51T72306F01	μ PD4052BC
or	51T68387F01	TC4052BP
IC1401	51T72016F01	LC7537
IC1402	51T67480F01	μ PD4053BC
or	51T68388F01	TC4053BP
IC1403	51T52155F01	NJM2041D
IC1404	51T52155F01	NJM2041D
IC1405	51T52155F01	NJM2041D
IC1406	51T52155F01	NJM2041D
IC1407	51T62903F01	TC9154P
IC1408	51T52155F01	NJM2041D
IC1501	51T74544F01	NJM5532DD
IC1502	51T74544F01	NJM5532DD
IC1503	51T52155F01	NJM2041D
IC1601	51T71061F01	71061F01
IC1751	51T72306F01	μ PD4052BC
or	51T68387F01	TC4052BP
IC1752	51T67915F01	M51143AL
IC1901	51T52155F01	NJM2041D
Transistors		
Q1001	48S43525F02	2SC1815
Q1201	48S43525F02	2SC1815
Q1202	48S43525F02	2SC1815
Q1250	48S43525F02	2SC1815
Q1251	48S43525F02	2SC1815

Symbol No.	Part No.	Description
Q1252	48S43525F02	2SC1815
Q1301	48S43238G01	2SA495
Q1302	48S43525F02	2SC1815
Q1303	48S43525F02	2SC1815
Q1351	48S43525F02	2SC1815
Q1352	48S43238G01	2SA495
Q1353	48S43525F02	2SC1815
Q1390	48S43525F02	2SC1815
Q1391	48S43525F02	2SC1815
Q1401	48S43525F02	2SC1815
Q1501	48T57305F04	2SD1302
Q1502	48T57305F04	2SD1302
Q1503	48T57305F04	2SD1302
Q1504	48T57305F04	2SD1302
Q1505	48T57305F04	2SD1302
Q1506	48T57305F04	2SD1302
Q1507	48S43525F02	2SC1815
Q1508	48S43238G01	2SA495
Q1509	48S43238G01	2SA495
Q1601	48S43525F02	2SC1815
Q1602	48S43525F02	2SC1815
Q1603	48T52508F03	2SC1545
Q1604	48T42182U01	2SD661
Q1605	48S43525F02	2SC1815
Q1606	48S43525F02	2SC1815
Q1607	48T43015U01	2SC2120
Q1608	48S43525F02	2SC1815
Q1609	48T43015U01	2SC2120
Q1610	48S43525F02	2SC1815
Q1611	48T56030F01	2SB941
Q1612	48T62540F05	UN1215
Q1613	48T62963F02	DTC114
Q1750	48S43525F02	2SC1815
Q1751	48S43525F02	2SC1815
Q1752	48S43525F02	2SC1815
Q1801	48S43525F02	2SC1815

Symbol No.	Part No.	Description
Q1802	48T43015U01	2SC2120
Q1804	48T43015U01	2SC2120
Q1851	48S40627U07	2SD636
Q1861	48T73683F01	2SC1741
Q1862	48T73682F01	2SA854
Q1863	48T73683F01	2SC1741
Q1864	48T73682F01	2SA854
Q1901	48T65363F01	2SA608
Q1902	48T65363F01	2SA608
Q1903	48T43015U01	2SC2120
Q1904	48S43525F02	2SC1815
Q1905	48S43525F02	2SC1815
Diodes		
D1001	48T44813F01	MA165TA
or	48T58583F01	SS176
D1002	48T44813F01	MA165TA
or	48T58583F01	SS176
D1003	48T44813F01	MA165TA
or	48T58583F01	SS176
D1004	48T44813F01	MA165TA
or	48T58583F01	SS176
D1251	48T44813F01	MA165TA
or	48T58583F01	SS176
D1252	48T44813F01	MA165TA
or	48T58583F01	SS176
D1253	48T44813F01	MA165TA
or	48T58583F01	SS176
D1301	48T44813F01	MA165TA
or	48T58583F01	SS176
D1302	48T44813F01	MA165TA
or	48T58583F01	SS176
D1303	48T44813F01	MA165TA
or	48T58583F01	SS176
D1304	48T44813F01	MA165TA
or	48T58583F01	SS176
D1305	48T44813F01	MA165TA
or	48T58583F01	SS176

Symbol No.	Part No.	Description
D1501	48T44813F01	MA165TA
or	48T58583F01	SS176
D1601	48T44813F01	MA165TA
or	48T58583F01	SS176
D1602	48T44813F01	MA165TA
or	48T58583F01	SS176
D1605	48T44813F01	MA165TA
or	48T58583F01	SS176
D1606	48T44813F01	MA165TA
or	48T58583F01	SS176
D1851	48C40235G02	10E2
D1852	48C40235G02	10E2
D1853	48C40235G02	10E2
D1854	48C40235G02	10E2
D1855	48T66923F01	Varistor, MFG08D300M
D1863	48C40235G02	10E2
D1901	48S40477U01	IN4003
D1902	48S40477U01	IN4003
D2103	48T44813F01	MA165TA
or	48T58583F01	SS176
ZD1251	48T68697F26	Zener, HZS6.8EB1
ZD1252	48T68697F26	Zener, HZS6.8EB1
ZD1390	48T68697F26	Zener, HZS6.8EB1
ZD1391	48T68697F26	Zener, HZS6.8EB1
ZD1499	48T68699F09	Zener, MTZ5.1−A
or	48T68698F17	Zener, HZS5.1EB1
ZD1601	48T68697F37	Zener, HZS9.1EB3
ZD1603	48T68697F21	Zener, HZS5.6EB2
ZD1604	48T68697F39	Zener, HZS10EB2
ZD1605	48T68697F37	Zener, HZS9.1EB3
ZD1606	48T68699F09	Zener, MTZ5.1−A
or	48T68698F17	Zener, HZS5.1EB1
ZD1607	48T68697F16	Zener, HZS4.7EB3
ZD1752	48T68697F16	Zener, HZS4.7EB3
ZD1801	48T68697F43	Zener, HZS11EB2
ZD1802	48T68699F01	Zener, MTZ3.9−A
ZD1803	48T68697F49	Zener, HZS13EB2
ZD1804	48T68697F49	Zener, HZS13EB2

Symbol No.	Part No.	Description
ZD1861	48T68697F31	Zener, HZS7.5EB3
ZD1862	48T68697F31	Zener, HZS7.5EB3
ZD1915	48T68699F32	Zener, MTZ10−C
or	48T68698F40	Zener, HZS10EB3
Coils		
L1001	24T50508F18	Inductor, 4.7 μH
L1351	24T60149F02	Inductor, 36mH
L1352	24T60149F02	Inductor, 36mH
L1801	25T47510F04	Choke, Filter
L1802	25T47510F04	Choke, Filter
Transformers		
T1001	24T42241U01	Coil, Dolby, 23mH (WHT)
T1002	24T42241U01	Coil, Dolby, 23mH (WHT)
Relay		
RL1801	80T67174F01	G6B (12V)
Switches		
S1401	40T72386F01	Slide, SSSY16
S1501	40T72385F01	Slide, SSSY322
S1502	40T72385F01	Slide, SSSY322
Crystal		
X1601	48T72383F01	4.5MHz

Symbol No.	Part No.	Description
Capacitors		
C1001	08T57705F11	Mylar, 3300pF
C1002	08T57705F11	Mylar, 3300pF
C1003	08T57705F09	Mylar, 2200pF
C1004	08T57705F09	Mylar, 2200pF
C1005	08T57705F12	Mylar, 3900pF
C1006	08T57705F12	Mylar, 3900pF
C1007	23S57007F02	Electrolytic, 0.22uF/50V
C1009	23S40657F28	Electrolytic, 1uF/50V
C1010	23S40657F28	Electrolytic, 1uF/50V
C1011	23S40657F13	Electrolytic, 47uF/16V
C1012	23S40657F13	Electrolytic, 47uF/16V
C1205	08T57851F13	TF 0.1uF
C1206	08T57851F13	TF 0.1uF
C1211	23S40657F32	Electrolytic, 10uF/50V
C1220	23T65374F05	Electrolytic, 100uF/16V
C1221	08T52714F13	Ceramic, 0.01uF
C1250	23S40657F10	Electrolytic, 10uF/16V
C1252	23S40657F06	Electrolytic, 33uF/10V
C1253	23S40657F06	Electrolytic, 33uF/10V
C1255	08T65480F61	Ceramic, 0.01uF
C1256	08T65480F61	Ceramic, 0.01uF
C1257	08T55260F61	Ceramic, 0.01uF
C1301	23S40657F29	Electrolytic, 2.2uF/50V
C1302	23S40657F29	Electrolytic, 2.2uF/50V
C1303	23S40657F12	Electrolytic, 33uF/16V
C1304	23S40657F12	Electrolytic, 33uF/16V
C1305	23S61524F30	Electrolytic, 0.33uF/50V
C1306	23S61524F30	Electrolytic, 0.33uF/50V
C1307	23S61524F31	Electrolytic, 0.47uF/50V
C1308	23S61524F31	Electrolytic, 0.47uF/50V
C1309	08T42629F23	Mylar, 0.033uF
C1310	08T42629F23	Mylar, 0.033uF
C1311	23S40657F10	Electrolytic, 10uF/16V
C1312	23S40657F10	Electrolytic, 10uF/16V
C1313	23S40657F02	Electrolytic, 47uF/6.3V
C1314	23S40657F02	Electrolytic, 47uF/6.3V

Symbol No.	Part No.	Description
C1315	08T42629F13	Mylar, 4700pF
C1316	08T57705F13	Mylar, 4700pF
C1317	08T57705F21	Mylar, 0.022uF
C1318	08T57705F21	Mylar, 0.022uF
C1319	23T61512F08	Electrolytic, 10uF/16V
C1320	23T61512F25	Electrolytic, 1uF/50V
C1321	23S40657F10	Electrolytic, 10uF/16V
C1322	23S40657F10	Electrolytic, 10uF/16V
C1323	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1324	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1325	23T65374F05	Electrolytic, 100uF/16V
C1326	23T65374F05	Electrolytic, 100uF/16V
C1327	23S40657F03	Electrolytic, 100uF/6.3V
C1328	23S40657F03	Electrolytic, 100uF/6.3V
C1351	08T57705F08	Mylar, 1800pF
C1352	08T57705F08	Mylar, 1800pF
C1353	23T65374F02	Electrolytic, 220uF/10V
C1354	23T65374F02	Electrolytic, 220uF/10V
C1355	23T73856F05	Electrolytic, 10uF/16V
C1356	23T73856F05	Electrolytic, 10uF/16V
C1357	23S57007F15	Electrolytic, 47uF/16V
C1358	23S57007F15	Electrolytic, 47uF/16V
C1359	08T57005F13	Mylar, 4700pF
C1360	08T57705F13	Mylar, 4700pF
C1361	08T57705F23	Mylar, 0.033uF
C1362	08T57705F23	Mylar, 0.033uF
C1363	08T57705F13	Mylar, 4700pF
C1364	08T57705F13	Mylar, 4700pF
C1365	08T57705F12	Mylar, 3900pF
C1366	08T57705F12	Mylar, 3900pF
C1367	23S57007F01	Electrolytic, 0.1uF/50V
C1368	23S57007F01	Electrolytic, 0.1uF/50V
C1369	23S57007F03	Electrolytic, 0.33uF/50V
C1370	23S57007F03	Electrolytic, 0.33uF/50V
C1371	23S73856F18	Electrolytic, 1uF/50V

Symbol No.	Part No.	Description
C1372	23T73856F18	Electrolytic, 1uF/50V
C1373	23S57007F15	Electrolytic, 47uF/16V
C1374	23S40657F13	Electrolytic, 47uF/16V
C1375	08T57705F13	Mylar, 4700pF
C1376	08T57705F13	Mylar, 4700pF
C1377	23S40657F10	Electrolytic, 10uF/16V
C1378	23S40657F10	Electrolytic, 10uF/16V
C1379	23S41198U34	Electrolytic, 100uF/16V
C1380	23S41198U34	Electrolytic, 100uF/16V
C1381	08T57705F22	Mylar, 0.027uF
C1382	08T57705F22	Mylar, 0.027uF
C1383	08T57705F13	Mylar, 4700pF
C1384	08T57705F13	Mylar, 4700pF
C1385	08T57705F13	Mylar, 4700pF
C1386	08T57705F13	Mylar, 4700pF
C1387	08T57705F21	Mylar, 0.022uF
C1388	08T57705F21	Mylar, 0.022uF
C1389	23S57007F01	Electrolytic, 0.1uF/50V
C1390	23S61524F28	Electrolytic, 0.1uF/50V
C1391	23S57007F03	Electrolytic, 0.33uF/50V
C1392	23S61524F30	Electrolytic, 0.33uF/50V
C1393	23S40657F06	Electrolytic, 33uF/10V
C1394	23S40657F06	Electrolytic, 33uF/10V
C1401	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1402	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1403	08T42629F10	Mylar, 2700pF
C1404	08T42629F10	Mylar, 2700pF
C1405	08T57705F30	Mylar, 0.12uF
C1406	08T57705F30	Mylar, 0.12uF
C1407	08T57705F30	Mylar, 0.12uF
C1408	08T57705F30	Mylar, 0.12uF
C1409	21S40655F17	Ceramic, 33pF
C1410	21C45322G16	Ceramic, 33pF
C1411	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1412	23T42477F09	Electrolytic,(B.P.)4.7uF/25V

Symbol No.	Part No.	Description
C1413	08T57851F21	TF 0.47uF
C1414	08T57851F21	TF 0.47uF
C1415	08T57851F21	TF 0.47uF
C1416	08T57851F21	TF 0.47uF
C1417	23T42477F18	Electrolytic,(B.P.)2.2uF/50V
C1418	23T42477F18	Electrolytic,(B.P.)2.2uF/50V
C1419	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1420	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1421	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1422	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1423	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1424	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1425	08T57705F11	Mylar, 3300pF
C1426	08T57705F11	Mylar, 3300pF
C1427	23T42477F52	Electrolytic,(B.P)0.22uF/50V
C1428	23T42477F52	Electrolytic,(B.P)0.22uF/50V
C1429	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1430	23T42477F06	Electrolytic,(B.P.) 10uF/16V
C1431	23S40657F32	Electrolytic, 10uF/50V
C1432	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1433	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1434	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1435	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1436	23T41366F40	Electrolytic,(B.P.) 1uF/50V
C1437	23T41366F40	Electrolytic,(B.P.) 1uF/50V
C1438	08T42629F23	Mylar, 0.33 μ F
C1439	08T42629F23	Mylar, 0.33 μ F
C1442	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1443	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1444	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1445	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1446	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1447	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1448	08T57705F27	Mylar, 0.068uF
C1449	08T57705F27	Mylar, 0.068uF

Symbol No.	Part No.	Description
C1450	23T42477F06	Electrolytic, (B.P.)10uF/16V
C1451	23T42477F06	Electrolytic, (B.P.)10uF/16V
C1499	23S40657F03	Electrolytic, 100uF/6.3V
C1501	21S40655F06	Ceramic, 5pF
C1502	21S40655F06	Ceramic, 5pF
C1503	23T73858F08	Electrolytic (B.P.) 4.7uF/25V
C1504	23T73858F08	Electrolytic (B.P.) 4.7uF/25V
C1505	23T65374F01	Electrolytic, 100uF/10V
C1506	23T65374F01	Electrolytic, 100uF/10V
C1507	23T73858F01	Electrolytic, (B.P.)10uF/16V
C1508	23T73858F01	Electrolytic, (B.P.)10uF/16V
C1511	21S40655F06	Ceramic, 5pF
C1512	21S40655F06	Ceramic, 5pF
C1513	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1514	23T73858F08	Electrolytic,(B.P.)4.7uF/25V
C1515	23T65374F01	Electrolytic, 100uF/10V
C1516	23T65374F01	Electrolytic, 100uF/10V
C1517	23T73858F01	Electrolytic, (B.P.)10uF/16V
C1518	23T73858F01	Electrolytic, (B.P.)10uF/16V
C1520	23T51232F02	Electrolytic, 1000uF/16V
C1521	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1522	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1523	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1524	23T42477F09	Electrolytic,(B.P.)4.7uF/25V
C1525	08T52714F13	Ceramic, 0.01uF
C1526	08T52714F13	Ceramic, 0.01uF
C1527	23S57007F16	Electrolytic, 100uF/6.3V
C1528	23S40657F03	Electrolytic, 100uF/6.3V
C1529	08S40805F15	Ceramic, 4700pF
C1530	08S40805F15	Ceramic, 4700pF
C1531	23T42477F06	Electrolytic, (B.P.)10uF/16V
C1532	23T42477F06	Electrolytic, (B.P.)10uF/16V
C1533	23T51232F02	Electrolytic, 1000uF/16V
C1535	23S57007F12	Electrolytic, 33uF/10V
C1536	23T42477F09	Electrolytic (B.P.) 4.7uF/25V

Symbol No.	Part No.	Description
C1598	23T42477F52	Electrolytic (B.P.) 0.22uF/50V
C1599	23T42477F52	Electrolytic, (B.P.) 0.22uF/50V
C1601	08T52714F13	Ceramic, 0.01uF
C1602	08T52714F17	Ceramic, 0.022uF
C1603	23T42477F15	Electrolytic, (B.P.)0.47uF/50V
C1604	23S40657F14	Electrolytic, 100uF/16V
C1605	08T57705F21	Mylar, 0.022uF
C1606	21C45322G42	Ceramic, 20pF
C1607	21C45322G42	Ceramic, 20pF
C1608	23S57007F18	Electrolytic, 100uF/10V
C1609	23S61523F10	Electrolytic, 33uF/10V
C1610	23S40657F07	Electrolytic, 47uF/10V
C1611	23S40657F13	Electrolytic, 47uF/16V
C1612	08T57705F25	Mylar, 0.047uF
C1613	23S40657F10	Electrolytic, 10uF/16V
C1615	08T52714F13	Ceramic, 0.01uF
C1630	08T65480F20	Ceramic, 20pF
C1640	08T44979F08	Ceramic, 0.01uF
C1650	21C45322G32	Ceramic, 0.022uF
C1751	23S40657F30	Electrolytic, 3.3uF/50V
C1752	23S57007F01	Electrolytic, 0.1uF/50V
C1753	23S40657F29	Electrolytic, 2.2uF/50V
C1755	23T41366F41	Electrolytic,(B.P) 2.2uF/50V
C1756	23S40657F29	Electrolytic, 2.2uF/50V
C1801	23S40657F14	Electrolytic, 100uF/16V
C1802	23S41198U33	Electrolytic, 100uF/10V
C1851	23T51232F01	Electrolytic, 2200uF/16V
C1852	23C42170G30	Electrolytic, 470uF/16V
C1861	23S40657F32	Electrolytic, 10uF/50V
C1862	23S40657F32	Electrolytic, 10uF/50V
C1863	23S40657F06	Electrolytic, 33uF/10V
C1864	23S40657F06	Electrolytic, 33uF/10V
C1865	23S40657F32	Electrolytic, 10uF/50V
C1866	23S40657F32	Electrolytic, 10uF/50V
C1867	23T00132L12	Electrolytic, 100uF/25V

Symbol No.	Part No.	Description
C1868	23T00132L12	Electrolytic, 100uF/25V
C1870	23T51232F01	Electrolytic, 2200uF/16V
C1901	23S57007F08	Electrolytic, 4.7uF/25V
C1902	23S57007F08	Electrolytic, 4.7uF/25V
C1903	21S40655F29	Ceramic, 330pF
C1904	21S40655F29	Ceramic, 330pF
C1905	23S57007F15	Electrolytic, 47uF/16V
C1906	23S57007F15	Electrolytic, 47uF/16V
C1907	23S40657F10	Electrolytic, 10uF/16V
C1908	23S40657F10	Electrolytic, 10uF/16V
C1909	23S57007F16	Electrolytic, 100uF/6.3V
C1910	23S57007F16	Electrolytic, 100uF/6.3V
C1911	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1912	23T42477F06	Electrolytic, (B.P.) 10uF/16V
C1915	23S40657F14	Electrolytic, 100uF/16V
C1916	23C42170G30	Electrolytic, 470uF/16V
C1917	23S41198U15	Electrolytic, 22uF/25V
Resistors/Protector		
R1327	06C44652G49	Metal Film 1K ohm 1/4W
R1630	06D44744G28	Carbon Film 470 ohm 1/2W
R1927	06C44652G60	Metal Film 39 ohm 1W
VR1301	18T52946F13	Variable, 10Kohm
VR1302	18T52946F13	Variable, 10K ohm
VR1303	18T52946F09	Variable, 2.2K ohm
VR1351	18T52946F15	Variable, 22K ohm
VR1352	18T52946F15	Variable, 22K ohm
VR1501	18T72384F01	Volume, 100K ohm−A
VR1502	18T72384F01	Volume, 100K ohm−A
DSP1001	48T70875F01	Surge, Protector, DSP−301N

Symbol No.	Part No.	Description
Trunk C.P.U. P.C. Board		
IC's		
IC2001	51T72264F01	μPD78C10G
IC2002	51T72304F01	μPD4555BC
IC2004	51T72303F01	μPD74HC138C
IC2005	51T72303F01	μPD74HC138C
IC2006	51T72305F01	μPD74HC373C
◎ IC2007	51T72267F01	72267F01 (See Note)
IC2008	51T72264F01	μPD78C10G
IC2009	51T72305F01	μPD74HC373C
◎ IC2010	51T72266F01	72266F01 (See Note)
IC2011	51T72301F01	μPD4538BC
IC2012	51T72301F01	μPD4538BC
IC2013	51T72309F04	MN1280
IC2014	51T72302F01	μPD4081BC
Transistors		
Q2001	48T63082F02	2SC2021M
Q2002	48T63082F02	2SC2021M
Q2003	48T63086F01	2SA937M
Q2004	48T63086F01	2SA937M
Q2005	48S43525F02	2SC1815
Q2006	48S43525F02	2SC1815
Q2007	48S43525F02	2SC1815
Q2008	48S43525F02	2SC1815
Q2009	48S43525F02	2SC1815
Q2010	48S43525F02	2SC1815
Q2011	48S43525F02	2SC1815
Q2012	48S43525F02	2SC1815
Q2013	48T63086F01	2SA937M
Q2014	48T63082F02	2SC2021M
Q2015	48S43525F02	2SC1815
Q2016	48S43525F02	2SC1815
Q2017	48S43238G01	2SA495
Q2018	48S43525F02	2SC1815
Q2019	48T63082F02	2SC2021M
Q2020	48S42455F01	2SD638

Note : For IC's marked ◎ please use ones specified by Alpine.

Symbol No.	Part No.	Description
Q2021	48S41784J03	2SC1368
Q2022	48T63082F02	2SC2021M
Q2023	48T63082F02	2SC2021M
Q2024	48T63082F02	2SC2021M
Q2025	48S43525F02	2SC1815
Q2026	48T63082F02	2SC2021M
Q2201	48T62540F03	UN1213
Diodes		
D2001	48T44813F01	MA165TA
D2002	48T44813F01	MA165TA
D2003	48T44813F01	MA165TA
D2004	48T44813F01	MA165TA
D2005	48T44813F01	MA165TA
D2006	48C40235G02	10E2
D2011	48T44813F01	MA165TA
D2012	48T44813F01	MA165TA
D2013	48T44813F01	MA165TA
D2020	48T44813F01	MA165TA
D2021	48T44813F01	MA165TA
D2022	48T44813F01	MA165TA
D2023	48T44813F01	MA165TA
D2024	48T44813F01	MA165TA
D2025	48T44813F01	MA165TA
D2026	48T44813F01	MA165TA
D2027	48T44813F01	MA165TA
D2028	48T44813F01	MA165TA
D2029	48T44813F01	MA165TA
D2030	48T44813F01	MA165TA
D2033	48T44813F01	MA165TA
D2034	48T44813F01	MA165TA
D2101	48T44813F02	MA165
D2102	48T44813F01	MA165TA
D2104	48C40235G02	10E2

Symbol No.	Part No.	Description
ZD2001	48T68697F21	Zener, HZS5.6EB2
ZD2002	48T68697F21	Zener, HZS5.6EB2
ZD2003	48T68697F22	Zener, HZS5.6EB3
ZD2004	48T68697F18	Zener, HZS5.1EB2
ZD2005	48T68697F15	Zener, HZS4.7EB2
Relay		
RL2001	80T67174F01	G6B (12V)
Crystals		
X2001	48T72382F01	7.3728MHz INDS
X2002	48T72382F01	7.3728MHz INDS
Capacitors		
C2001	08S53332F47	Chip, 0.01uF
C2002	08S53332F35	Chip, 1000pF
C2003	23T61512F12	Electrolytic, 3.3uF/25V
C2004	23T61512F12	Electrolytic, 3.3uF/25V
C2005	23S40657F03	Electrolytic, 100uF/6.3V
C2010	08S53332F35	Chip, 1000pF
C2011	08S53332F13	Chip, 15pF
C2012	08S53332F13	Chip, 15pF
C2013	23S40657F03	Electrolytic, 100uF/6.3V
C2015	23S40657F07	Electrolytic, 47uF/10V
C2016	08S53332F35	Chip, 1000pF
C2018	23S40657F02	Electrolytic, 47uF/6.3V
C2019	23S40657F02	Electrolytic, 47uF/6.3V
C2020	23S40657F08	Electrolytic, 100uF/10V
C2021	08S53332F47	Chip, 0.01uF
C2022	23S40657F29	Electrolytic, 2.2uF/50V
C2023	08S53332F13	Chip, 15pF
C2024	08S53332F13	Chip, 15pF
C2027	23S40657F03	Electrolytic, 100uF/6.3V
C2028	23T61512F12	Electrolytic, 3.3uF/25V

Symbol No.	Part No.	Description
C2029	08S53332F47	Chip, 0.01uF
C2030	23S40657F03	Electrolytic, 100uF/6.3V
C2031	08S53332F47	Chip, 0.01uF
C2032	08S53332F35	Chip, 1000pF
C2033	08S53332F35	Chip, 1000pF
C2034	08S53332F35	Chip, 1000pF
C2050	08S53332F23	Chip, 100pF
C2051	08S53332F23	Chip, 100pF
C2052	08S53332F23	Chip, 100pF
C2053	08S53332F23	Chip, 100pF
C2054	08S53332F23	Chip, 100pF
C2055	08S53332F23	Chip, 100pF
C2056	08S53332F23	Chip, 100pF
C2057	08S53332F23	Chip, 100pF
C2058	08S53332F35	Chip, 1000pF
C2059	08S53332F23	Chip, 100pF
C2060	08S53332F23	Chip, 100pF
C2061	08S53332F23	Chip, 100pF
C2062	08S53332F23	Chip ,100pF
C2063	08T65480F37	Ceramic, 100pF
C2064	08S53332F23	Chip, 100pF
C2065	08T42629F67	Mylar, 0.01uF
C2066	08T42629F67	Mylar, 0.01uF
C2067	08T65480F37	Ceramic, 100pF
C2068	08S53332F23	Chip, 100pF
C2069	08S53332F23	Chip, 100pF
C2070	08S53332F23	Chip, 100pF
C2120	23S40657F12	Electrolytic, 33uF/16V
C2201	23T73861F18	Electrolytic, 3300uF/16V
C2220	23T61512F05	Electrolytic, 22uF/10V
Resistors		
R2001	06S53331F02	Chip, 100K ohm1/8W
R2002	06S53331F02	Chip, 100K ohm1/8W
R2003	06S53331F02	Chip, 100K ohm1/8W
R2004	06S53331F02	Chip, 100K ohm1/8W
R2005	06S53331F02	Chip, 100K ohm1/8W

Symbol No.	Part No.	Description
R2008	06S53330F77	Chip, 10K ohm1/8W
R2009	06S53330F81	Chip, 15K ohm1/8W
R2010	06S53330F81	Chip, 15K ohm1/8W
R2011	06S53330F77	Chip, 10K ohm1/8W
R2017	06S53330F37	Chip, 220 ohm1/8W
R2018	06S53330F37	Chip, 220 ohm1/8W
R2019	06S53330F37	Chip, 220 ohm1/8W
R2020	06S53330F37	Chip, 220 ohm1/8W
R2021	06S53330F85	Chip, 22K ohm1/8W
R2022	06S53330F85	Chip, 22K ohm1/8W
R2023	06S53330F85	Chip, 22K ohm1/8W
R2026	06S53331F02	Chip, 100K ohm1/8W
R2027	06S53331F02	Chip, 100K ohm1/8W
R2028	06S53331F02	Chip, 100K ohm1/8W
R2029	06S53330F85	Chip, 22K ohm1/8W
R2030	06S53330F85	Chip, 22K ohm1/8W
R2031	06S53330F85	Chip, 22K ohm1/8W
R2032	06S53330F85	Chip, 22K ohm1/8W
R2033	06S53330F85	Chip, 22K ohm1/8W
R2034	06S53330F85	Chip, 22K ohm1/8W
R2035	06S53330F85	Chip, 22K ohm1/8W
R2036	06S53330F85	Chip, 22K ohm1/8W
R2038	06S53330F45	Chip, 470 ohm1/8W
R2042	06S53331F02	Chip, 100K ohm1/8W
R2046	06S53330F77	Chip, 10K ohm1/8W
R2047	06S53330F77	Chip, 10K ohm1/8W
R2049	06S53330F53	Chip, 1K ohm1/8W
R2050	06S53330F77	Chip, 10K ohm1/8W
R2052	06S53330F77	Chip, 10K ohm1/8W
R2053	06S53330F77	Chip, 10K ohm1/8W
R2054	06S53331F02	Chip, 100K ohm1/8W
R2055	06S53331F02	Chip, 100K ohm1/8W
R2056	06S53331F02	Chip, 100K ohm1/8W
R2058	06S53330F53	Chip, 1K ohm1/8W
R2061	06S53330F53	Chip, 1K ohm1/8W

Symbol No.	Part No.	Description
R2062	06S53330F77	Chip, 10K ohm1/8W
R2064	06S53330F77	Chip, 10K ohm1/8W
R2066	06S53331F02	Chip, 100K ohm1/8W
R2067	06S53330F77	Chip, 10K ohm1/8W
R2068	06S53330F53	Chip, 1K ohm1/8W
R2069	06S53330F45	Chip, 470 ohm1/8W
R2070	06S53331F02	Chip, 100K ohm1/8W
R2071	06S53330F77	Chip, 10K ohm1/8W
R2072	06S53330F53	Chip, 1K ohm1/8W
R2073	06S53330F77	Chip, 10K ohm1/8W
R2074	06S53330F77	Chip, 10K ohm1/8W
R2075	06S53330F85	Chip, 22K ohm1/8W
R2076	06S53330F85	Chip, 22K ohm1/8W
R2077	06S53330F85	Chip, 22K ohm1/8W
R2078	06S53330F85	Chip, 22K ohm1/8W
R2079	06S53330F85	Chip, 22K ohm1/8W
R2080	06S53330F77	Chip, 10K ohm1/8W
R2081	06S53330F85	Chip, 22K ohm1/8W
R2082	06S53330F85	Chip, 22K ohm1/8W
R2083	06S53330F85	Chip, 22K ohm1/8W
R2084	06S53330F85	Chip, 22K ohm1/8W
R2085	06S53330F85	Chip, 22K ohm1/8W
R2086	06S53330F85	Chip, 22K ohm1/8W
R2087	06S53330F85	Chip, 22K ohm1/8W
R2088	06S53330F85	Chip, 22K ohm1/8W
R2089	06S53330F85	Chip, 22K ohm1/8W
R2090	06S53330F85	Chip, 22K ohm1/8W
R2092	06S53331F02	Chip, 100K ohm1/8W
R2093	06S53331F02	Chip, 100K ohm1/8W
R2094	06S53331F02	Chip, 100K ohm1/8W
R2096	06S53331F02	Chip, 100K ohm1/8W
R2097	06S53331F02	Chip, 100K ohm1/8W
R2098	06S53331F02	Chip, 100K ohm1/8W
R2099	06S53331F02	Chip, 100K ohm1/8W
R2100	06S53331F02	Chip, 100K ohm1/8W

Symbol No.	Part No.	Description
R2101	06S53331F02	Chip, 100K ohm1/8W
R2102	06S53331F02	Chip, 100K ohm1/8W
R2103	06S53331F02	Chip, 100K ohm1/8W
R2105	06S53331F02	Chip, 100K ohm1/8W
R2108	06S53331F02	Chip, 100K ohm1/8W
R2109	06S53331F02	Chip, 100K ohm1/8W
R2110	06S53331F02	Chip, 100K ohm1/8W
R2111	06S53331F02	Chip, 100K ohm1/8W
R2112	06S53331F02	Chip, 100K ohm1/8W
R2113	06S53331F02	Chip, 100K ohm1/8W
R2114	06S53331F02	Chip, 100K ohm1/8W
R2115	06S53331F02	Chip, 100K ohm1/8W
R2116	06S53331F02	Chip, 100K ohm1/8W
R2117	06S53330F77	Chip, 10K ohm1/8W
R2118	06S53330F53	Chip, 1K ohm1/8W
R2119	06S53331F02	Chip, 100K ohm1/8W
R2127	06S53330F35	Chip, 180ohm1/8W
R2130	06S53330F77	Chip, 10K ohm1/8W
R2131	06S53330F85	Chip, 22K ohm1/8W
R2132	06S53330F35	Chip, 180K ohm1/8W
R2133	06S53330F77	Chip, 10K ohm1/8W
R2134	06S53330F85	Chip, 22K ohm1/8W
R2136	06S53331F02	Chip, 100K ohm1/8W
R2138	06S53331F02	Chip, 100K ohm1/8W
R2139	06S53330F36	Chip, 200 ohm1/8W
R2140	06S53330F77	Chip, 10K ohm1/8W
R2142	06S53330F53	Chip, 1K ohm1/8W
R2150	06S53331F02	Chip, 100K ohm1/8W
R2153	06S53331F02	Chip, 100K ohm1/8W
R2170	06S53330F61	Chip, 2.2K ohm1/8W
R2201	06S53330F85	Chip, 22K ohm1/8W
R2202	06S53330F85	Chip, 22K ohm1/8W
R2203	06S53331F14	Chip, 330K ohm1/8W

Symbol No.	Part No.	Description
	Motor Drive P.C. Board	
IC's		
IC2501	51T70536F01	BA6229
IC2502	51T70536F01	BA6229
IC2503	51T70536F01	BA6229
Transistors		
Q2202	48T42620F02	2SD880
Q2203	48S43525F02	2SC1815
Q2501	48S43238G01	2SA495
Q2502	48S43238G01	2SA495
Diodes		
D2201	48C40235G02	10E2
D2202	48T44813F01	MA165TA
ZD2201	48T68697F24	Zener, HZS6.2EB2
ZD2501	48T68697F24	Zener, HZS6.2EB2
ZD2502	48T68697F31	Zener, HZS7.5EB3
ZD2503	48T68697F36	Zener, HZS9.1EB2
Relay		
RL2201	80T68404F01	G5A
Capacitors		
C2202	23S40657F10	Electrolytic, 10uF/16V
C2501	08T57705F29	Mylar, 0.1uF
C2502	08T57705F29	Mylar, 0.1uF
C2503	08T57705F29	Mylar, 0.1uF
C2504	23T65374F06	Electrolytic, 220uF/16V

Symbol No.	Part No.	Description
Resistors		
R2204	06C44652G48	Metal Film, 10 ohm-2W
R2505	06C44652G57	Metal Film, 4.7 ohm-2W
	D/D Converter P.C. Board	
Transistors		
Q2801	48S40627U07	2SD636
or	48T63082F02	2SC2021M
Q2802	48T69218F01	2SC3074
Diodes		
D2801	48T44813F01	MA165TA
or	48T58583F01	SS176
D2802	48T44813F01	MA165TA
or	48T58583F01	SS176
D2803	48T44813F01	MA165TA
or	48T58583F01	SS176
D2804	48T44813F01	MA165TA
or	48T58583F01	SS176
D2805	48T44813F01	MA165TA
or	48T58583F01	SS176
ZD2801	48T68697F52	Zener, HZS15EB2
or	48T68702F57	Zener, RD15ESB2
ZD2802	48T68697F82	Zener, HZS33EB3
or	48T68702F86	Zener, RD33ESB3
Coils		
L2801	24T60742F01	MC102 1mH
L2802	24T71179F15	RC805 1.5mH
L2803	24T71179F15	RC805 1.5mH
L2804	24T71179F15	RC805 1.5mH
L2805	24T71179F15	RC805 1.5mH

Symbol No.	Part No.	Description
Transformer		
T2801	24T73672F02	Converter Inductor 470μH
Capacitors		
C2801	23C42170G30	Electrolytic, 470uF/16V
C2802	08T65480F61	Ceramic, 0.01uF
C2803	08T52714F05	Ceramic, 2200pF
C2804	23S41198U34	Electrolytic, 100uF/16V
C2805	23T43707U04	Electrolytic, 220uF/10V
C2806	23T43707U04	Electrolytic, 220uF/10V
C2808	23S41198U34	Electrolytic, 100uF/16V
C2809	23S41198U34	Electrolytic, 100uF/16V
C2810	23T43707U04	Electrolytic, 220uF/10V
C2811	23T43707U04	Electrolytic, 220uF/10V
C2812	23S41198U34	Electrolytic, 100uF/16V

Front P.C. Board

Symbol No.	Part No.	Description
LEDs		
LD3001	48T57941F03	AA3422K (ORG)
LD3002	48T57941F03	AA3422K (ORG)
LD3003	48T57941F03	AA3422K (ORG)
LD3004	48T57941F03	AA3422K (ORG)
LD3005	48T57941F03	AA3422K (ORG)
LD3006	48T57941F03	AA3422K (ORG)
LD3007	48T57941F03	AA3422K (ORG)
LD3008	48T57941F03	AA3422K (ORG)
LD3009	48T57941F03	AA3422K (ORG)
LD3015	48T51833F04	AA4524K (ORG)
LD3016	48T51833F04	AA4524K (ORG)
LD3017	48T51833F04	AA4524K (ORG)
LD3018	48T51833F04	AA4524K (ORG)
LD3019	48T51833F04	AA4524K (ORG)
LD3020	48T51833F04	AA4524K (ORG)
LD3021	48T51833F04	AA4524K (ORG)
LD3022	48T51833F04	AA4524K (ORG)
LD3023	48T51833F04	AA4524K (ORG)
LD3024	48T51833F04	AA4524K (ORG)
LD3025	48T51833F04	AA4524K (ORG)
LD3026	48T51833F04	AA4524K (ORG)
LD3027	48T51833F04	AA4524K (ORG)
LD3028	48T51833F04	AA4524K (ORG)
LD3029	48T51833F04	AA4524K (ORG)
LD3030	48T51833F04	AA4524K (ORG)
LD3031	48T51833F04	AA4524K (ORG)
LD3032	48T51833F04	AA4524K (ORG)
LD3033	48T51833F04	AA4524K (ORG)
LD3034	48T51833F04	AA4524K (ORG)
Switches		
S3001	40T70366F01	Tact, KHL10906 (DOWN)
S3002	40T70366F01	Tact, KHL10906 (UP)
S3003	40T70366F01	Tact, KHL10906 (R/T)
S3004	40T70366F01	Tact, KHL10906 (FF)
S3005	40T70366F01	Tact, KHL10906 (REW)
S3006	40T70366F01	Tact, KHL10906 (P/P)
S3007	40T70366F01	Tact, KHL10906 (BAND)
S3008	40T70366F01	Tact, KHL10906 (DN SEEK)
S3009	40T70366F01	Tact, KHL10906 (UP SEEK)
S3010	40T67523F07	Tact, KHQ11908 (ORG) (Volume) (Included LD3010)
S3011	40T67523F07	Tact, KHQ11908 (ORG) (Treble/Bass) (Included LD3011
S3012	40T67523F07	Tact, KHQ11908 (ORG) (Balance/Fader) (Included LD3012)
S3013	40T67523F07	Tact,KHQ11908 (ORG) (SUB.W) (Included LD3013)

Symbol No.	Part No.	Description
S3014	40T67523F07	Tact, KHQ11908 (ORG) (Loud) (Included LD3014)
S3015	40T70366F01	Tact, KHL10906 (POWER)
S3016	40T70366F01	Tact, KHL10906 (1)
S3017	40T70366F01	Tact, KHL10906 (2)
S3018	40T70366F01	Tact, KHL10906 (3)
S3019	40T70366F01	Tact, KHL10906 (4)
S3020	40T70366F01	Tact, KHL10906 (5)
S3021	40T70366F01	Tact, KHL10906 (6)
S3022	40T70366F01	Tact, KHL10906 (P.C.S)
S3023	40T70366F01	Tact, KHL10906 (P.M.S)
S3024	40T70366F01	Tact, KHL10906 (B.SKIP)
S3025	40T70366F01	Tact, KHL10906 (T.SCAN)
S3026	40T70366F01	Tact, KHL10906 (REPEAT)
S3027	40T70366F01	Tact, KHL10906 (RADIO/Monitor)
S3028	40T70366F01	Tact, KHL10906 (A.C.I)
S3029	40T70366F01	Tact, KHL10906 (CPMS)
Lamps		
PL3001	65T67467F06	Pilot, 6V−32mA
PL3002	65T67467F06	Pilot, 6V−32mA
PL3003	65T67467F06	Pilot, 6V−32mA
PL3004	65T67467F06	Pilot, 6V−32mA
PL3005	65T67467F06	Pilot, 6V−32mA
PL3006	65T67467F06	Pilot, 6V−32mA
PL3007	65T63304F05	Pilot, 6V−65mA
PL3008	65T63304F05	Pilot, 6V−65mA

Symbol No.	Part No.	Description
Indash P.C. Board		
IC's		
IC3001	51T72263F01	μ PD7810G
◎ IC3002	51T72265F01	72265F01 (See Note)
IC3003	51T72305F01	μ PD74HC373C
IC3004	51T51507F01	μ PD4028BP
IC3005	51S42270F01	μ PA53C
IC3006	51T52392F01	M54563P
IC3007	51T72309F01	MN1280
IC3009	51T72310F01	μ PC78M05H
Transistors		
Q3003	48S40627U07	2SD636
or	48T63082F02	2SC2021M
Q3004	48S42455F03	2SD638
or	48T63084F01	2SD1228M
Q3005	48S40627U07	2SD636
or	48T63082F02	2SC2021M
Q3006	48S42455F03	2SD638
or	48T63084F01	2SD1228M
Q3007	48S40627U07	2SD636
or	48T63082F02	2SC2021M
Q3008	48S42455F03	2SD638
or	48T63084F01	2SD1228M
Q3009	48T62540F02	UN1212
or	48T62963F03	DTC124
Q3010	48T62540F02	UN1212
or	48T62963F03	DTC124
Q3011	48T62540F02	UN1212
or	48T62963F03	DTC124
Q3012	48T74390F01	2SA874
Q3013	48T62540F03	UN1213
or	48T62963F04	DTC144
Q3014	48T62540F02	UN1212
or	48T62963F03	DTC124D
Q3015	48T62540F02	UN1212
or	48T62963F03	DTC124

Note : For IC's marked ◎ please use ones specified by Alpine.

Symbol No.	Part No.	Description
Q3016	48T62540F02	UN1212
or	48T62963F03	DTC124
Diodes		
D3001	48C40235G02	10E2
D3002	48T43189F01	1S1555
or	48T51582F01	MA150
D3003	48T43189F01	1S1555
or	48T51582F01	MA150
D3004	48T43189F01	1S1555
or	48T51582F01	MA150
D3005	48T43189F01	1S1555
or	48T51582F01	MA150
D3006	48T43189F01	1S1555
or	48T51582F01	MA150
D3007	48T43189F01	1S1555
or	48T51582F01	MA150
D3008	48T43189F01	1S1555
or	48T51582F01	MA150
D3009	48T43189F01	1S1555
or	48T51582F01	MA150
D3010	48T44813F01	MA165TA
Coil		
L3001	25T47510F04	Choke Filter
Crystal		
X3001	48T72382F01	7.3728MHz

Symbol No.	Part No.	Description
Capacitors		
C3001	23S41198U41	Electrolytic, 220uF/16V
C3002	23S40657F09	Electrolytic, 220uF/10V
C3003	08T57298F01	Ceramic, 0.1uF
C3004	08T57298F01	Ceramic, 0.1uF
C3005	08T57298F01	Ceramic, 0.1uF
C3006	08T55260F50	Ceramic, 1000pF
C3007	08T55260F50	Ceramic, 1000pF
C3008	08T55260F50	Ceramic, 1000pF
C3009	08T55260F50	Ceramic, 1000pF
C3010	08T55260F17	Ceramic, 15pF
C3011	08T55260F17	Ceramic, 15pF
C3013	23S40657F29	Electrolytic, 2.2uF/50V
C3014	08T55260F47	Ceramic, 680pF
C3015	08T55260F47	Ceramic, 680pF
C3016	23T61513F11	Electrolytic, 10uF/16V
C3017	23T51232F02	Electrolytic, 1000uF/16V
Index P.C.Board		
IC		
IC3101	51T73528F02	MB88307PF
LEDs		
LD3103	48T50930F04	PG2222SX (GRN)
LD3104	48T50930F04	PG2222SX (GRN)
LD3105	48T50930F04	PG2222SX (GRN)
LD3106	48T50930F04	PG2222SX (GRN)
LD3107	48T50930F04	PG2222SX (GRN)
LD3108	48T50930F04	PG2222SX (GRN)

Symbol No.	Part No.	Description
Lamps		
PL3101	65T68826F01	Long, 5V−60mA
PL3102	65T68826F01	Long, 5V−60mA
Capacitor		
C3101	08S53332F55	Chip, 0.047uF
Changer P.C. Board		
Diodes		
D4001	48S134816	1S1555
D4002	48S134816	1S1555
D4003	48S134816	1S1555
D4004	48S134816	1S1555
D4005	48S134816	1S1555
D4006	48S134816	1S1555
D4007	48S134816	1S1555
D4008	48S134816	1S1555
IC		
IC4010	51T71026F01	PHOTO
Switches		
S4006	40T41665F01	Slide, (DOOR 1)
S4008	40T71647F01	Micro, D2A (UN LOAD)
S4009	40T71647F01	Micro, D2A (SLIDE)
S4012	40T41665F01	Slide, (LOADING END)
S4013	40T41665F01	Slide, (DOOR 2)

Symbol No.	Part No.	Description
Miscellaneous		
▲ C1699	08T44979F08	Capacitor, Ceramic 0.01 μ F
C1890	08T68871F01	Capacitor, Feed Through (3P)
E1001	09T72387F02	Antenna Input Connector
E1002	01T72388F02	Assembly, Output DIN Connector (8P) (Rear)
E1003	01T72388F01	Assembly, Output DIN Connector (8P) (Front)
E1004	01T72388F03	Assembly, Output DIN Connector (8P) (SUB)
E1005	01T73995F02	Assembly, ACC Power Supply Cable
E1006	01T73995F01	Assembly, Battery Power Supply Cable
E1007	01T80006F01	Assembly, Power Antenna Cable
E1008	30T40438U08	Assembly, Ground Cable
E1009	01T72389F01	Assembly, Input DIN Connector (Line−In)
E1010	01T72227F02	Assembly, Optical Fiber Cable
E1301	01T73940F01	Assembly, Index Display DIN Connector
E3001	01T73939F01	Assembly, DIN, Indush
E3002	01T73995F03	ACC, Power Supply Cable
E3003	30T40438U08	Assembly, Ground Cable
E3004	01T72271F02	Assembly, Optical Fiber Cable
E3005	01T73648F01	Assembly, Siren Cable
HD2001	88T73824F01	Head
LCD3001	01T72380F01	Assembly, LCD Unit
LD3101	48T52238F04	LED, AA5552K (ORG)
LD3102	48T52238F03	LED, PY5552K (YEL)
M701	01V64100F96	Assembly, Motor
M702	01V64100F88	Assembly, RF Motor
M4001	01V64200F39	Assembly, Loading Motor

Note: ● : For 7375 model only
▲ : For 7375E model only
Others : Common

Symbol No.	Part No.	Description
M4002	01V71500F83	Assembly, Loading Motor
M4003	59T52973F02	Motor, Servo
S702	40T63432F01	Switch, Slide
S703	40T72578F01	Switch, Micro
S704	40T60329F03	Switch, Leaf
S2201	40T61292F01	Switch, Tact (Emargency)
S4001	40T70518F02	Switch, Micro (HOME)
S4002	40T70518F03	Switch, Micro (MAG.IN)
S4003	40T71025F01	Switch, Detector (DBX)
S4004	40T71025F01	Switch, Detector (DOL－C)
S4005	40T71025F01	Switch, Detector (COL－B)
S4007	40T61292F01	Switch, Tact (Eject)
S4010	40T41665F01	Switch, Slide (START／END)
S4011	40T41665F01	Switch, Slide (TIMING)
SD701	01A63213F01	Assembly, Program Solenoid
SD702	01A63212F01	Assembly, Play Solenoid
SD703	01A63214F01	Assembly, RF Solenoid

Symbol No.	Part No.	Description

Cabinet Assembly Parts List

(Indash Control Unit)

Symbol	No.	Index	Part No.	Description
▲	1	6-B	13D72313F01	Assembly, Nosepiece
●	1		13D72313F02	Assembly, Nosepiece
	2	5-C	36B68375F01	Knob, Push
	3		15B72333F01	Cover, Top
	5		03S44205G30	Screw, Pan (M2.6×4)
	6	4-D	75S72374F42	Cushion, Rubber
	9	3-E	03D40014G09	Screw, W/Washer (M3×5)
	10	5-D	03S68555F04	Screw, Pan (M2.6×6)
	11	4-C	01V73200F88	Assembly, Front, P.C.Board
	12	4-C	15A71114F01	Cover, LED (Base)
	13	5-C	15A70798F01	Cover, LED
	14	5-C	07A72328F01	Frame, LED
	15	4-C	75S72374F26	Cushion, Rubber
	16	3-G	03S40011G75	Screw, Bind (M2×14)
	19		03D40014G12	Screw, W/Washer (M2.6×4)
	22	3-F	03S40036U03	Screw, Pan (M3×6)
	23	3-F	42B41424G03	Clamp, Cord
	24	5-C	03S44205G62	Screw, Bind (M2.6×5)
	25	3-F	03S40036U11	Screw, Pan (M3×8)
	27	5-C	30T73687F01	Wire, Parallel (17P−25)
	28	5-C	30T73687F02	Wire, Parallel (6P−30)
	29	5-C	30T73687F03	Wire, Parallel (4P−45)
	30	5-C	30T73687F04	Wire, Parallel (4P−30)

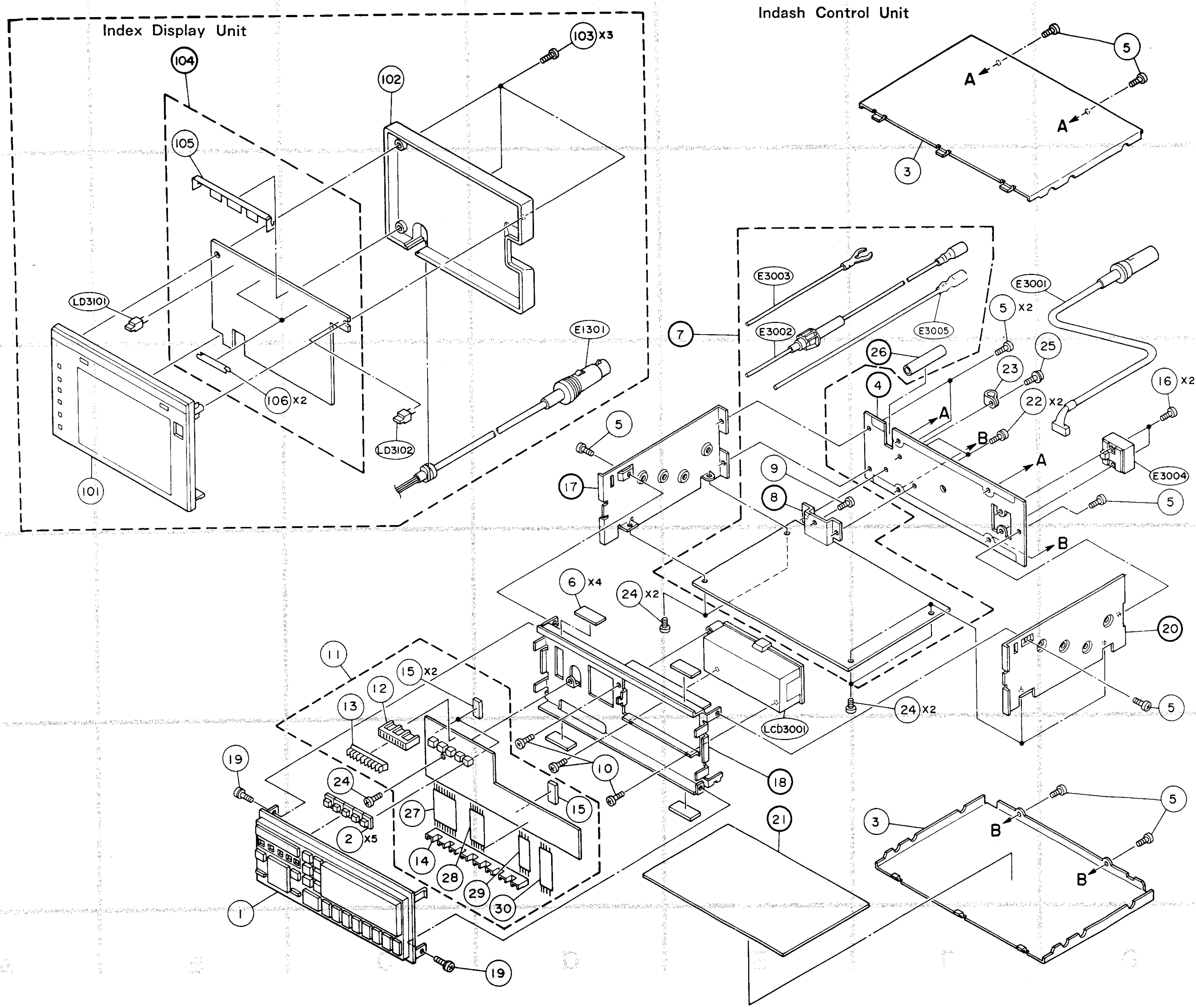
Note: ● : For 7375 model only
▲ : For 7375E model only
Others : Common

(Index Display Unit)

Symbol No.	Index	Part No.	Description
101	3-A	13B74086F01	Assembly, Top Escutcheon
102	1-C	13C74053F01	Escutcheon, Bottom
103	1-D	03S68555F02	Screw, Pan (M2×5.5)
105	2-B	15A74150F01	Cover, Lamp
106	3-B	43A69040F01	Bushing, Lamp (L)

NOTE: The parts without part numbers are not supplied.

Exploded View (Cabinet) (Indash Control Unit/Index Display Unit)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Indash Control Unit
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LD3102
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E3001
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E3002
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16 x2
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E3004
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LCD3001
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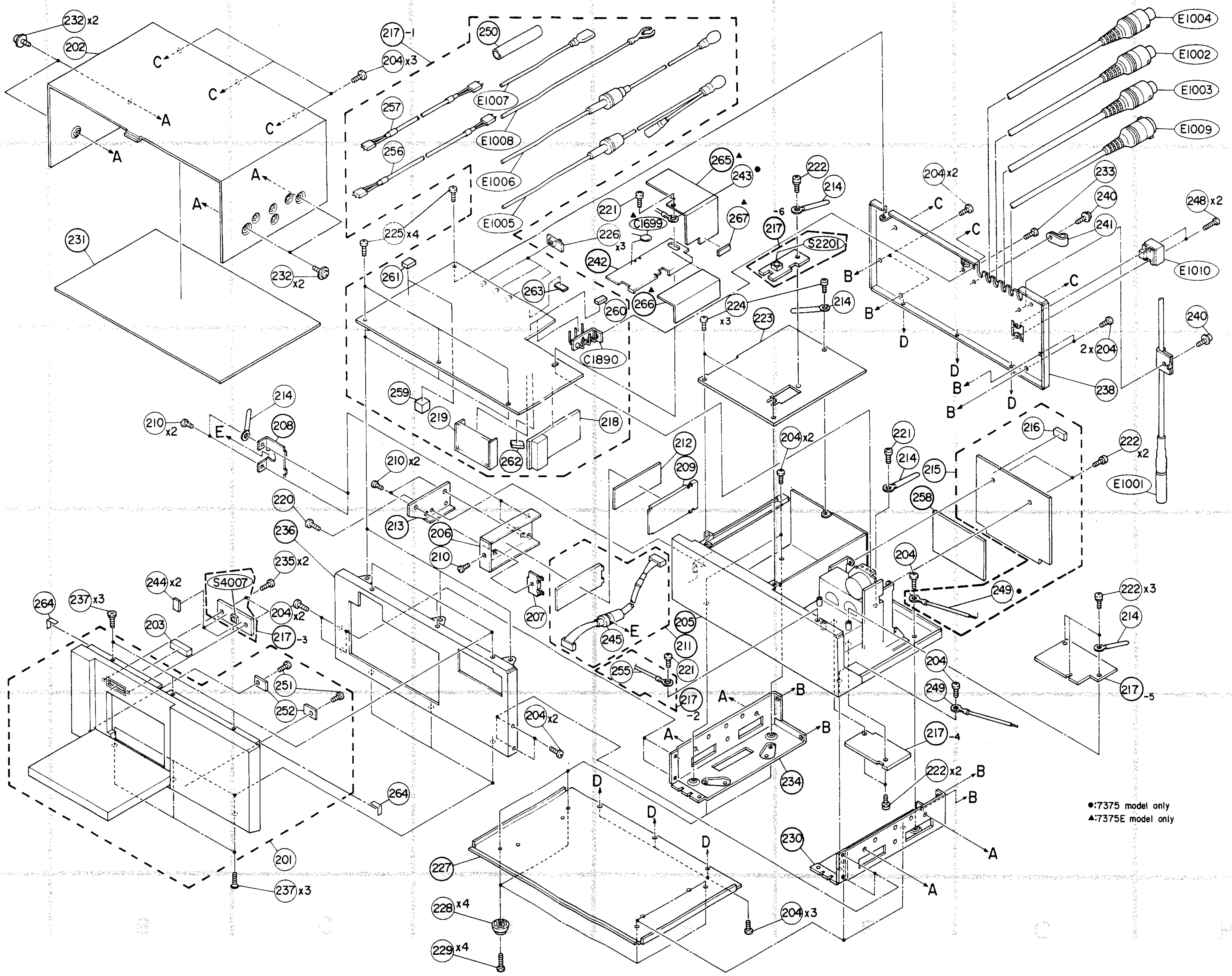
Exploded View (Cabinet) (Trunk-Mount Unit 1/2)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E1005
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C1890
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218
265 ▲
243 ●
221
C1699 ▲
226 x3
242
266 ▲
267 ▲
222
214
-6
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S2201
224 x3
223
204 x2
B
D
E1004
E1002
E1003
E1009
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240
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248 x2
E1010
2 x 204
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222 x2
E1001
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204 x2
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249 ●
222 x3
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244 x2
S4007
204 x2
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255
217-2
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252
204 x2
234
217-4
222 x2
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201
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228 x4
229 x4
204 x3
237 x3

●:7375 model only
▲:7375E model only

Cabinet Assembly Parts List (Trunk-Mount Unit 1/2)

Symbol	No.	Index	Part No.	Description
●	201	5-B	13C72379F01	Assembly, Front Escutcheon
▲	201		13C72379F03	Assembly, Front Escutcheon
	202	1-A	15D72339F01	Cover, Top
	203	4-B	36B61150F01	Knob, Function
	204		03S44205G38	Screw, Bind (M3×6)
	207	4-D	07A72353F01	Support, P.C.Board (A)
	210		03S44205G42	Screw, Pan (M2.6×4)
	214		29C41045P01	Lug, Wrap Around
	216	3-G	75S62361F95	Cushion, Rubber
▲	218	3-D	77C81247F01	FM Unit (MB1E401A) (FE1002)
●	218	3-D	77C81686F01	FM Unit (MB1A401B) (FE1002)
	219	3-C	77B71544F01	AM Tuner (TR1AP41K) (FE1001)
	220	3-B	03S44205G12	Screw, Pan (M3×4)
	221		03S44205G62	Screw, Bind (M2.6×5)
	222		03D40014G06	Screw, W/Washer (M2.6×5)
	224		03S44205G41	Screw, Pan (M2.6×4)
	225	2-C	03S44205G55	Screw, Pan (M3×6)
	226	2-D	36A72345F01	Knob, Slide Switch
	228	6-C	75A43354P01	Pad Tranning
	229	6-C	03S44205G10	Screw, Pan (M3×10)
	232		03S40036U12	Screw, W/Washer (M4×6)
	233	2-G	03D40014G19	Screw, W/Washer (M2.6×5)
	235	4-B	03S68555F01	Screw, Pan (M3×8)
	237	6-B	03S40012G98	Screw, Tapping (M3×8)
	238	3-G	15C72338F01	Cover, Rear
	240	2-G	03S40036U11	Screw, W/Washer (M3×8)
	241	2-G	42B41424G02	Clamp, Cord
●	243	2-E	29A737272	Lug, Wrap Around
	244	4-B	75S72374F41	Cushion, Rubber
	245	4-D	01T73773F01	Assembly, Connector
	248	2-H	03S40011G75	Screw, Bind (M2×14)
●	249		01T74409F02	Assembly, Terminal Wire
	251	4-B	03S68555F11	Screw, Pan (M3×6)
	252	4-B	07A72343F01	Support, Door

Symbol	No.	Index	Part No.	Description
▲	255		01T74409F02	Assembly, Terminal Wire
●	255		01T74409F03	Assembly, Terminal Wire
	256	2-C	01T73994F01	Assembly, Shield Wire
	257	1-C	01T73994F02	Assembly, Shield Wire
	259	3-C	75S72374F51	Cushion, Rubber
	260	2-D	75S72374F53	Cushion, Rubber
	261	2-C	75S72374F52	Cushion, Rubber
	262	3-D	75S72374F54	Cushion, Rubber
	263	2-D	14S71058F56	Insulator, Cover
	264		75S72374F42	Cushion, Rubber
▲	267	2-E	75S62361F19	Cushion, Rubber

Note: ● : For 7375 model only
▲ : For 7375E model only
Others : Common

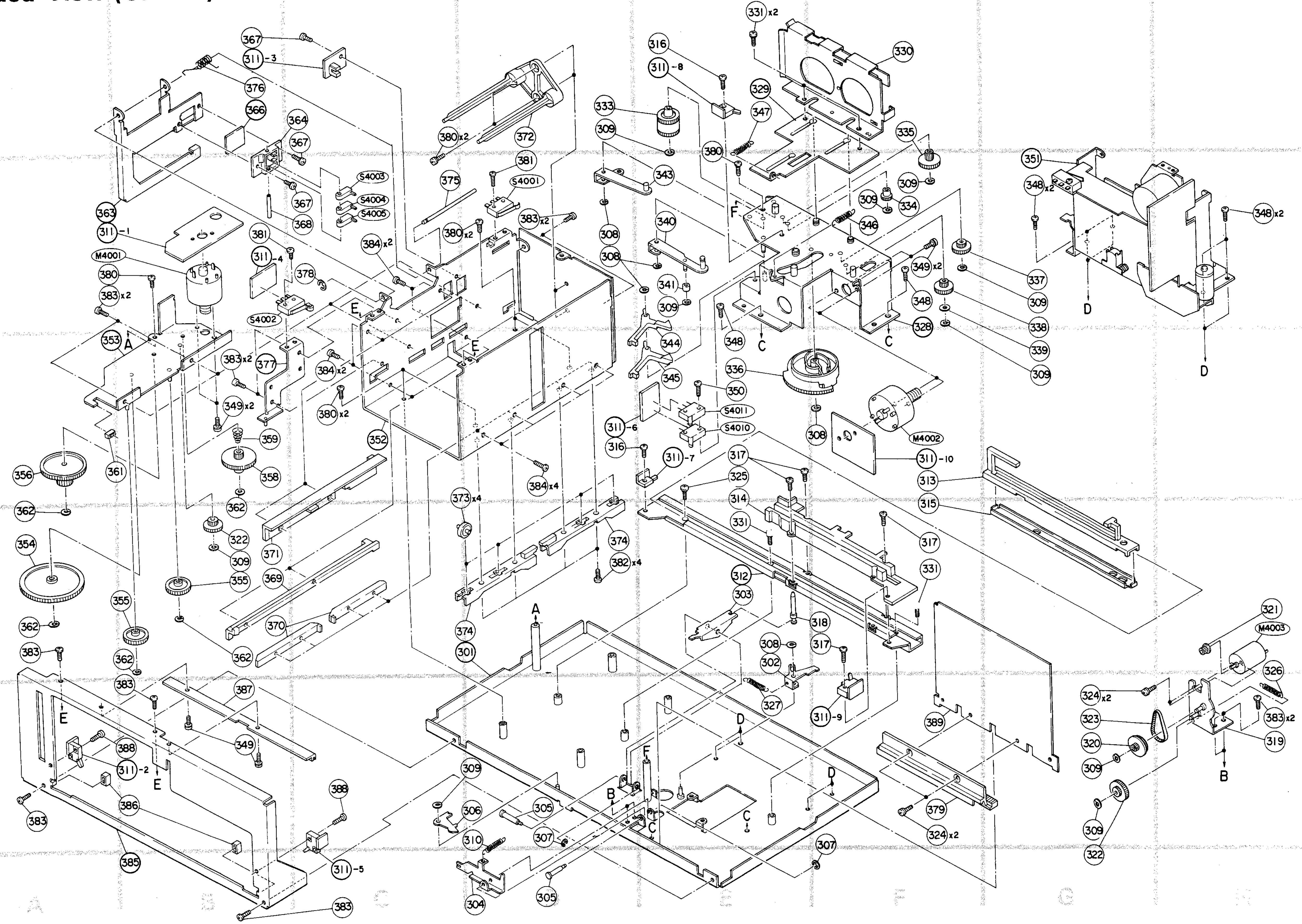
NOTE: The parts without part numbers are not supplied.

Cabinet Assembly Parts List (Trunk-Mount Unit 2/2)

Symbol No.	Index	Part No.	Description
302	5-E	45A70632F01	Arm, Slide Lock
303		45A70633F01	Arm, Magazine Lock
304	6-D	07A70637F01	Bracket, Magazine Link
305		47A70646F01	Shaft, Lock Bracket
306	5-D	45A71616F01	Arm, Magazine Door
307	6-D	04C42091G06	Washer, "E" (M1.5)
308		04A41345P06	Washer, Lock (M2.1)
309		04A41345P02	Ring, Lock (M1.7)
310	6-D	41B71020F05	Spring, Changer
313	3-F	44C70848F01	Rack, Slide
314	4-E	07B70847F01	Frame, Rail Guide
315	4-F	07A73370F01	Bracket, Rail Switch
316	3-D	03D40014G02	Screw, W/Washer (M2×6)
317		03S68259F10	Screw, Pan (M2×10)
318	4-F	47A70645F01	Shaft, Lock Pin
319	5-H	01A72126F01	Assembly, Motor Door Rivet
320	5-G	49A71618F01	Pulley, (TMB-54)
321	4-H	49A71617F01	Pulley, (TMB-15)
322	6-G	44A70628F01	Gear, (D8.5-D17)
323	5-G	42A71615F01	Belt, (TMB-22.6)
324		03S68259F23	Screw, Pan (M2×3)
325	4-E	03A73361F01	Screw, P-Lock (M2.6×3)
326	5-H	41B71020F01	Spring, Changer
327	5-E	41B71020F06	Spring, Changer
330	1-F	07C70655F01	Holder, Cassette
331		03S68259F01	Screw, Pan (M2.6×3)
333	1-D	01T71024F01	Assembly, Slide Clutch
334	2-F	44A70625F01	Gear, (D6)
335	2-F	44A70626F01	Gear, (D5-D18)
336	3-E	44C70627F01	Gear, Loading Cam
337	2-G	44A73294F01	Gear, (D11-D17)
338	2-G	44A70629F01	Gear, Worm Wheel
339	3-G	04S40075G06	Washer, Polyslider (M2.1)
340	2-E	01A71022F01	Assembly, Arm Loading

Symbol No.	Index	Part No.	Description
341	2-E	49A70649F01	Roller
343	2-E	01A71023F01	Assembly, Arm Slide
344	3-E	45A70768F01	Arm, Switch (U)
345	3-E	45A70769F01	Arm, Switch (L)
346	2-F	41B71020F03	Spring, Changer
347	1-E	41B71020F02	Spring, Changer
348		03S44205G12	Screw, Pan (M3×4)
349		03D40014G12	Screw, W/Washer (M2.6×4)
350	3-E	03S68259F14	Screw, Pan (M2×12)
354	4-A	44A70903F01	Gear, (D40)
355	4-B	44A70904F01	Gear, (D19.2)
356	3-A	44A70905F01	Gear, (D11.2-D33)
358	3-B	44A62779F01	Gear, "B"
359	3-B	41A67004F01	Spring, Sensor Solenoid
361	3-A	75A60213F01	Rubber, Brake
362		04A41345P04	Washer, Lock (M2.6)
364	1-C	15A71017F01	Cover, Select Switch
367		03D40014G07	Screw, W/Washer (M2×4)
368	2-C	47A71291F01	Pin, Select Switch
369	4-B	07A70997F01	Guide, Magazine (L)
370	4-B	07A70998F01	Guide, Magazine (R)
371	4-B	07B71002F01	Guide, Magazine Top
372	1-D	07C71003F01	Guide, Cassette
373	4-D	49A70907F01	Roller
374	4-D	07A70908F01	Frame, Roller
375	2-C	47A71015F01	Shaft, Bracket SS
376	1-B	41A71016F01	Spring, Bracket SS
378	2-C	04C42091G05	Ring, "E" (M2.0)
379	5-F	07B71613F01	Rack, Door
380		03D40014G19	Screw, W/Washer (M2.6×5)
381		03S68259F06	Screw, Bind (M2.3×8)
382	4-D	03S44205G34	Screw, Pan (M2.6×5)
383		03S44205G41	Screw, Pan (M2.6×4)
384	3-D	03S40012G18	Screw, Tapping (M2.6×6)
386	5-B	75A60213F01	Rubber, Brake
387	5-B	07B71614F01	Guide, Door
388		03S68259F03	Screw, Pan (M2×7)
389	5-F	07B71644F01	Plate, Door

Exploded View (Cabinet) (Trunk-Mount Unit 2/2)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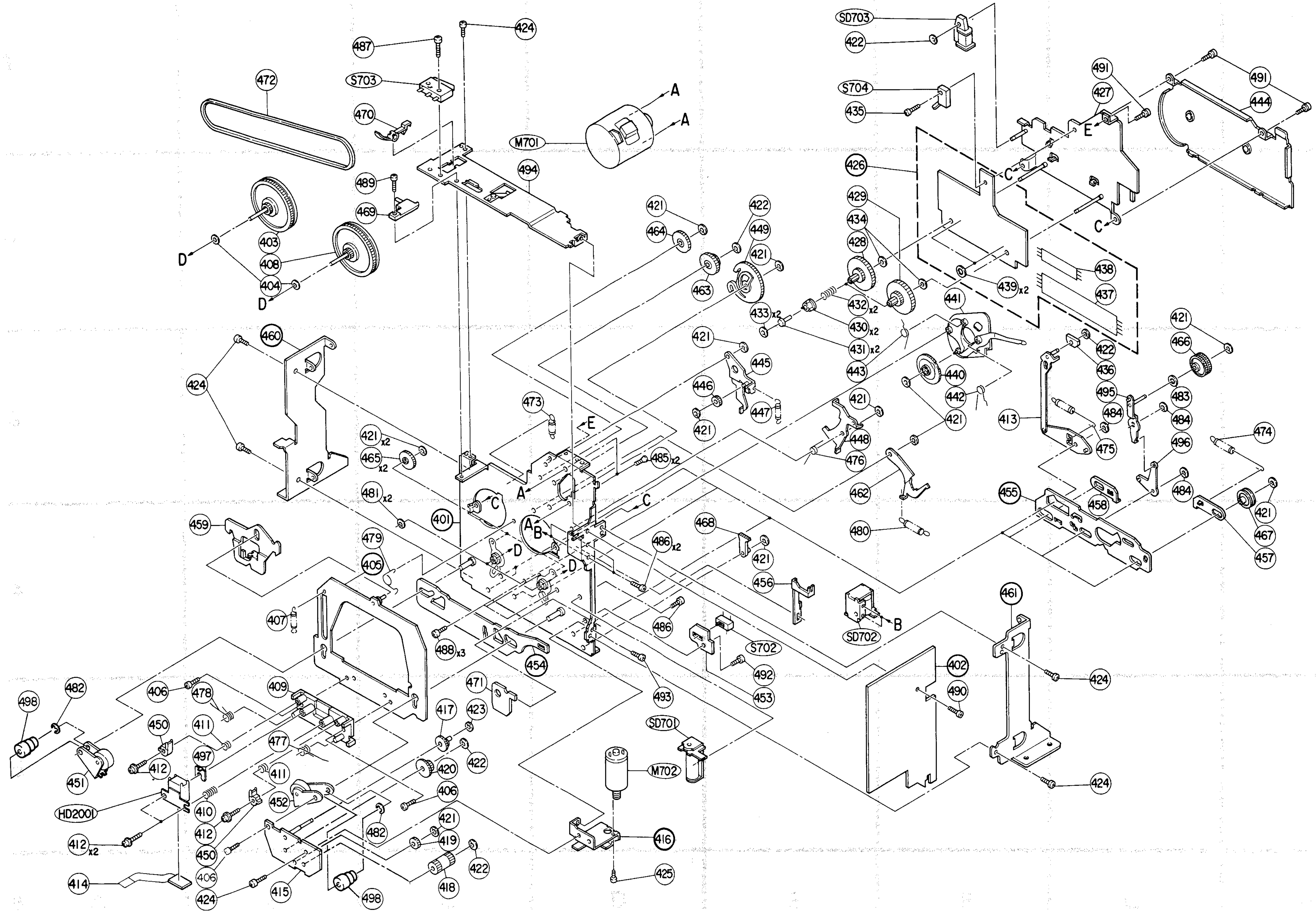
Exploded View (Cassette Deck) (Trunk-Mount Unit)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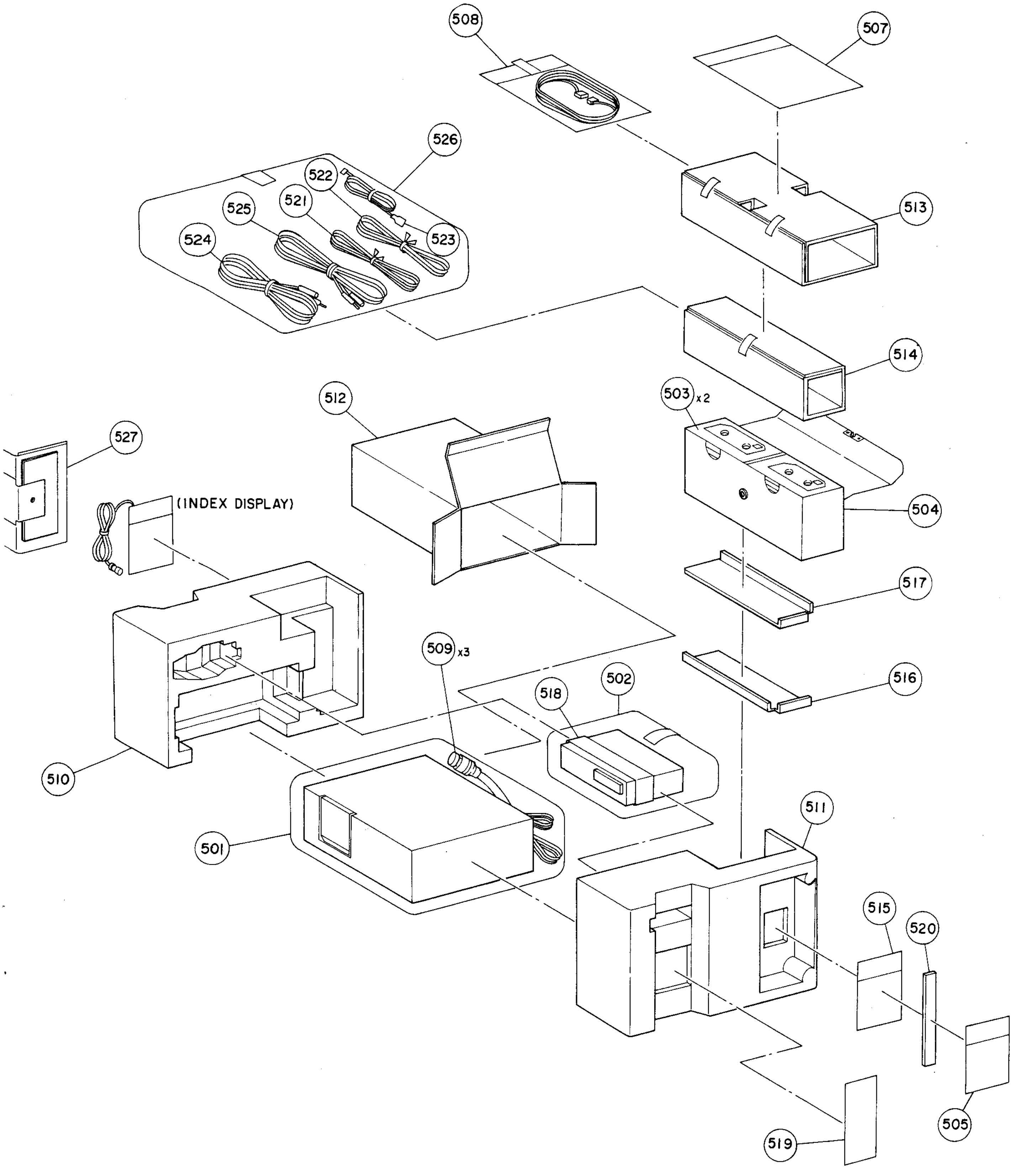
Cassette Deck Assembly Parts List (Trunk-Mount Unit)

Symbol No.	Index	Part No.	Description
403	2-B	01T63210F02	Assembly, Flywheel
404	2-B	04S40075G05	Washer, Polyslider1 (M2.1)
406		03S68259F01	Screw, Pan (M2.6×3)
407	4-B	41B63283F10	Spring
408	2-B	01T63210F01	Assembly, Flywheel
409	5-B	07B63205F01	Frame, Head
410	5-A	41A63289F01	Spring, Head
411		41A63290F01	Spring, Tape, Guide
412		03S40019G03	Screw, F−Locks (M2×4)
413		01A63485F01	Assembly, RF Lock Rivet
414	6-A	84T71667F01	Head EQ P.C. Board
415	6-B	01A70991F01	Assembly, RF Bracket Rivet
417	5-C	01A63493F01	Assembly, RF Gear Rivet
418	6-C	44A63193F01	Gear, RF (A)
419	5-C	44A63191F01	Gear, Clutch
420	5-C	44A63194F01	Gear, RF (B)
421		04A41345P01	Washer, Lock (M1.2)
422		04A41345P02	Washer, Lock (M1.7)
423	5-C	04A41345P11	Washer, Lock (M1.2)
424		03S44205G30	Screw, Pan (M2.6×4)
425	6-D	03S68259F12	Screw, Pan (M2×2.5)
427	1-G	01A63495F02	Assembly, Reel Bracket Rivet
428	2-E	01T72396F01	Assembly, Reel
429	2-E	01T72396F02	Assembly, Reel
430	2-E	49A64626F01	Reel, Ring
431	3-E	49A64627F01	Reel Cap
432	2-E	41A64628F02	Spring, Reel
433	2-E	04A41345P12	Washer, Lock (M1.7)
434	2-E	04S40075G06	Washer, Polyslider (M2.1)
435	1-E	03S63259F04	Screw, Pan (M1.7×6)
436	3-G	76A63231F01	Chip
437	2-G	30T63478F01	Wire, PC
438	2-G	30T63478F02	Wire, PC
439	2-F	04S40075G17	Washer, Polyslider (M4.1)
440	3-F	44B63187F01	Gear, Change
441	2-F	01A63496F01	Assembly, Reverse Frame Rivet
442	3−F	41A63287F01	Spring, Reverse Lock
443	3−E	41A63288F01	Spring, Reverse Act
444	1−G	01V64100F95	Assembly, Flywheel Bracket
445	3−E	01A63497F01	Assembly, Clutch Lever Rivet
446	3−D	44A63191F01	Gear, Clutch
447	3−E	41B63283F08	Spring
448	3−E	45A63179F01	Lever, Play Solenoid
449	2−E	01V68400F39	Assembly, Gear Pause
450	6−A	43B63198F01	Tape, Guide
451	5−A	01V69200F02	Assembly, Pinch Roller
452	5−B	01V69200F03	Assembly, Pinch Roller
453	4−D	84A63235F01	Program Switch P.C.Board
456	4−E	45A63174F01	Lever, Solenoid Link
457	4−G	45A63175F01	Lever, RF Spring (A)
458	3−F	45A63176F01	Lever, RF Spring (B)
459	4−A	07A70516F01	Bracket, Reel Brake
462	3−E	45A63173F01	Lever, Play Lock
463	2−D	44A63189F01	Gear, Motor Idler
464	2−D	44A63190F01	Gear, Eject Idler
465	3−B	44A63196F01	Gear, Take Up
466	3−G	44A63197F01	Gear, RF Idler
467	3−G	49A63202F01	Pulley, Idler
468	4−D	44A63207F01	Gear, RF Swing
469	2−B	07A70638F01	Bracket, Pack Switch
470	1−B	45A70514F01	Arm, Metal
471	5−C	84A70519F01	Panel, RF Motor(Included S701)
472	1−B	42A40969F01	Belt
473	3−C	41B63283F04	Spring
474	3−G	41B63283F06	Spring
475	3−F	41B63283F09	Spring
476	3−E	41A63285F01	Spring, Play Act
477	5−B	41A63286F01	Spring, Pinch Roller
478	5−A	41A63286F02	Spring, Pinch Roller
479	4−B	41A70517F01	Spring, Reel Brake
480	4−E	41B63283F05	Spring
481	4−B	43A44303P03	Washer, Oil Shield (M1.9)
482		04C42091G04	Ring, "E" (M3)

Symbol No.	Index	Part No.	Description
483	3−G	04A41345P09	Washer, Lock (M2.3)
484	3−G	04A41345P04	Washer, Lock (M2.6)
485	3−D	03S68259F13	Screw, Countersunk (M2.6×3)
486	4−D	03S68259F21	Screw, Pan (M2.6×2.5)
487	1−B	03S68259F06	Screw, Bind (M2.3 ×8)
488	4−C	03S68259F11	Screw, Pan (M1.7×2)
489	2−B	03S68259F19	Screw, Pan (M1.7×4.5)
490	5−F	03S44205G48	Screw, Pan (M2.6×5)
491		03D40014G12	Screw, W/Washer (M2.6×4)
492	4−E	03S43997P36	Screw, Bind (M2.6×3)
493	5−D	03S68259F12	Screw, Pan (M2×2.5)
494	2−C	01A70992F01	Assembly, Bracket Side Changer Rivet
495	3−G	01A63483F02	Assembly, RF Idler Rivet
496	3−G	01A63484F01	Assembly, RF Link Rivet
497	5−A	43A44456F06	Spacer, Head
498		43A74738F01	Roller, Pack Guide

Symbol No.	Part No.	Description

Packing Method View


508
507
526
522
525
521
523
524
513
514
512
503 x2
527
(INDEX DISPLAY)
504
517
509 x3
516
518
502
510
511
501
515
520
505
519

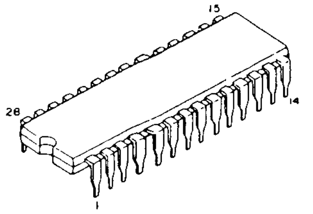
Packing Assembly Parts List

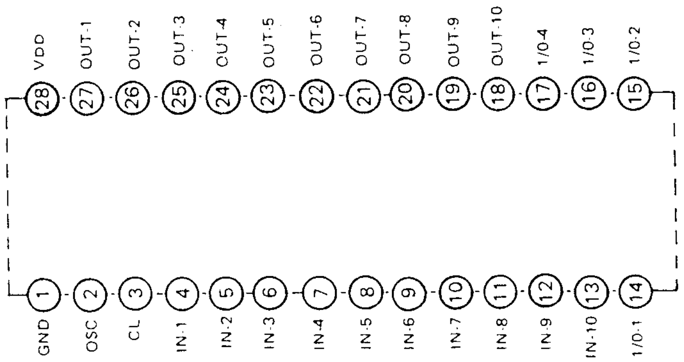
Symbol No.	Part No.	Description
501	56B40990T30	Sack, Polyethylene (Trunk Unit)
502	56B40990T22	Sack, Polyethylene (Indash Unit)
503	01C71307F02	Assembly, Cassette, Magazine
504	15C74137F01	Case, Magazine
505	01V73300F13	Assembly, Kit Installation
506	01V73300F14	Assembly, Bracket Kit
● 507	01V81200F24	Assembly, Pamphlet
▲ 507	68P80130F25	Owner's, Manual
508	01T72271F01	Assembly, Optkal Fiber
509	15T44235F01	Cover, Connector
510	56D73769F01	Tray, Packing (L)
511	56D73769F02	Tray, Packing (R)
● 512	56S69257F97	Carton, Packing (Individnal)
▲ 512	56S69254F99	Carton, Packing (Individnal)
513	56A73770F01	Antenna Cable
515	99T71992F01	Tape, Cleaner
516	07C73115F01	Bracket, Mounting (L)
517	07C73115F02	Bracket, Mounting (R)
● 518	15C58231F01	Case, Inner
▲ 518	15C55241F01	Case, Inner
519	33B67735F01	Face, Plate
520	07B64552F01	Bracket, Strap Receiver
521	01T73911F01	Assembly, Ignition Wire
522	01T73911F02	Assembly, Battery Wire
523	01T80007F01	Assembly, Power Antenna Adapter
524	01T74136F01	Assembly, Antenna Cable (1.5M)
525	01T74136F02	Assembly, Antenna Cable (4M)
526	56B40230G46	Sack, Polyethylene
527	01V74300F13	Assembly, Index Kit

Note: ● : For 7375 model only
▲ : For 7375E model only
Others : Common

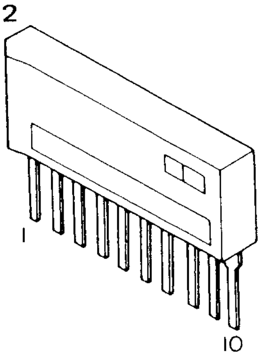
Semi-Conductor Lead Identifications

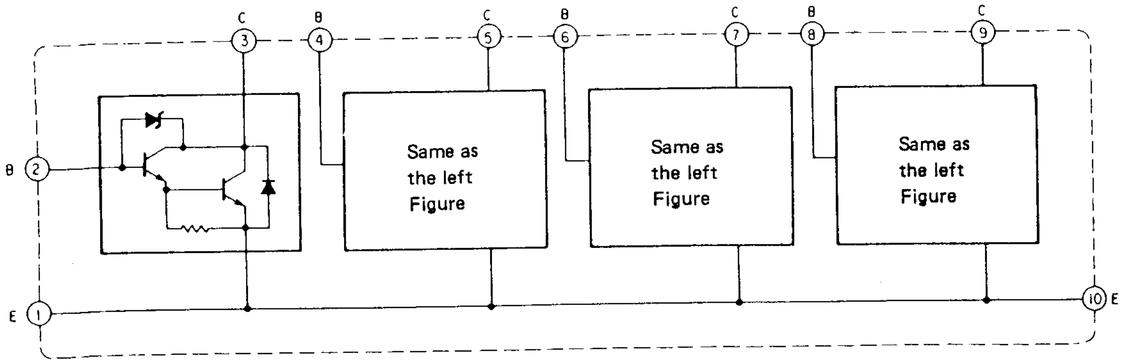
68339F01: IC701



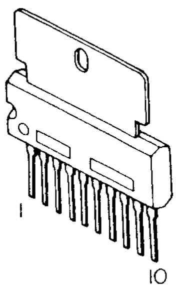

VDD
OUT-1
OUT-2
OUT-3
OUT-4
OUT-5
OUT-6
OUT-7
OUT-8
OUT-9
OUT-10
1/0-4
1/0-3
1/0-2
28
27
26
25
24
23
22
21
20
19
18
17
16
15
1
2
3
4
5
6
7
8
9
10
11
12
13
14
GND
OSC
CL
IN-1
IN-2
IN-3
IN-4
IN-5
IN-6
IN-7
IN-8
IN-9
IN-10
1/0-1

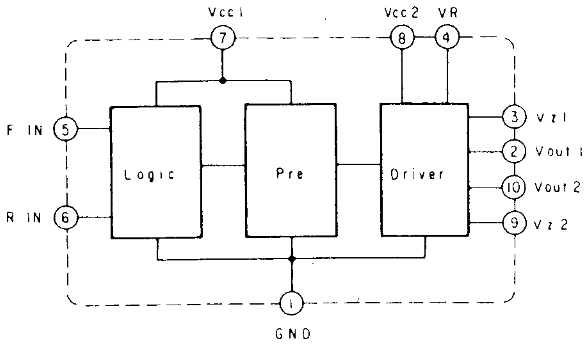
PU4124: IC702



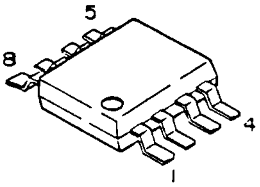

C
3
B
4
C
5
B
6
C
7
B
8
C
9
B
2
E
1
10
E
Same as the left Figure
Same as the left Figure
Same as the left Figure

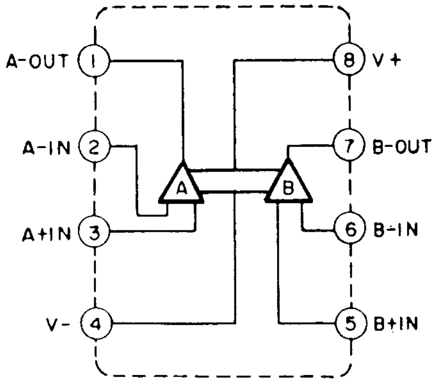
BA6109: IC703



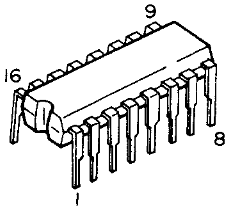

Vcc1
7
Vcc2
8
VR
4
F IN
5
R IN
6
Logic
Pre
Driver
3
Vz1
2
Vout 1
10
Vout 2
9
Vz2
1
GND

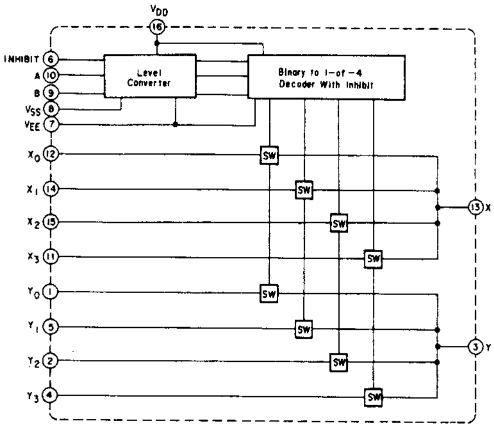
NJM5532M-D: IC1201, 1501, 1502



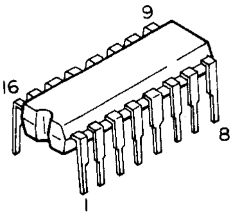

A-OUT 1
A-IN 2
A+IN 3
V- 4
8 V+
7 B-OUT
6 B-IN
5 B+IN
A
B

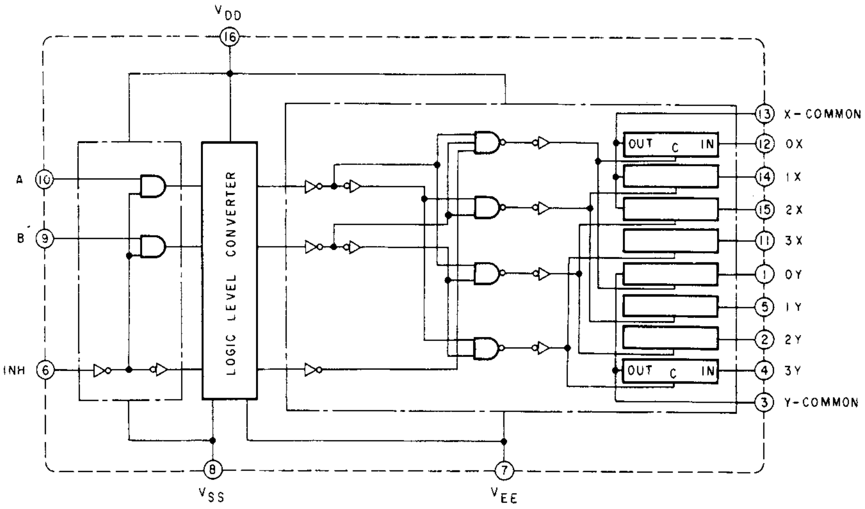
μPD4052BC: IC1251, 1353, 1751



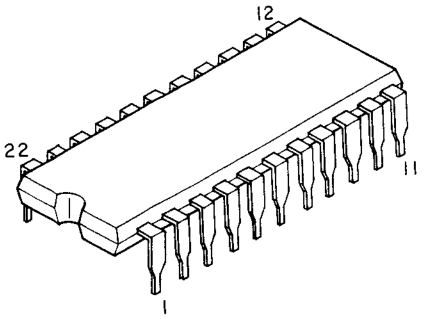

VDD
16
INHIBIT 6
A 10
B 9
VSS 8
VEE 7
Level Converter
Binary to 1-of-4 Decoder With Inhibit
X0 12
X1 14
X2 15
X3 11
Y0 1
Y1 5
Y2 2
Y3 4
SW
13 X
3 Y

TC4052BP: IC1251, 1353, 1751



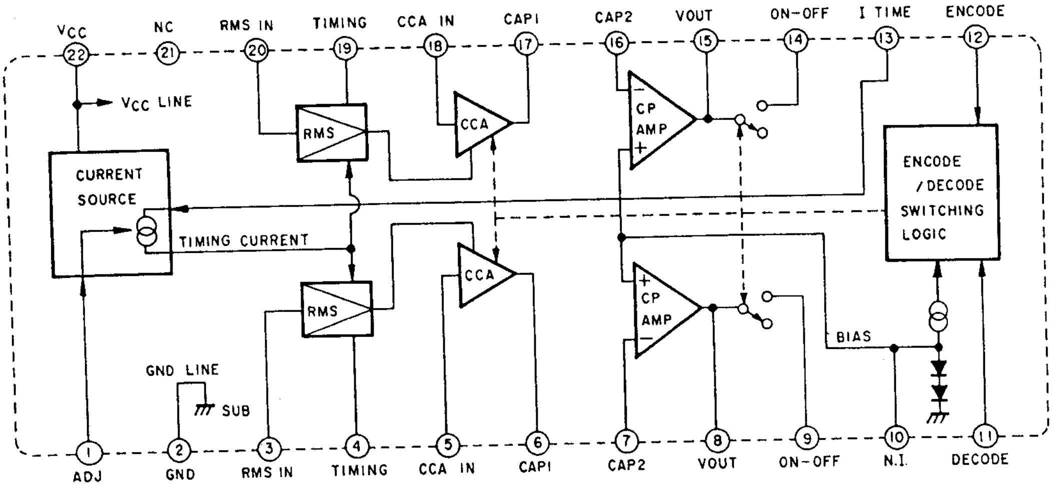

VDD
16
A 10
B 9
INH 6
LOGIC LEVEL CONVERTER
OUT C IN
13 X-COMMON
12 0X
14 1X
15 2X
11 3X
1 0Y
5 1Y
2 2Y
4 3Y
3 Y-COMMON
8
VSS
7
VEE

AN6291: IC1302

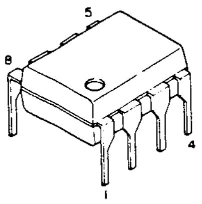


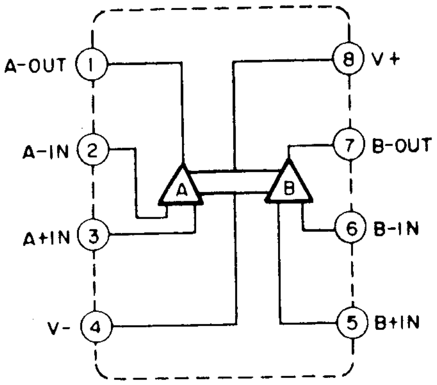
ENCODE / DECODE SWITCHING LOGIC CONDITIONS

PIN 11	PIN 12	OPERATION MODE
V_{CC}	OPEN	DECODE
OPEN	V_{CC}	ENCODE
V_{CC}	V_{CC}	BIAS

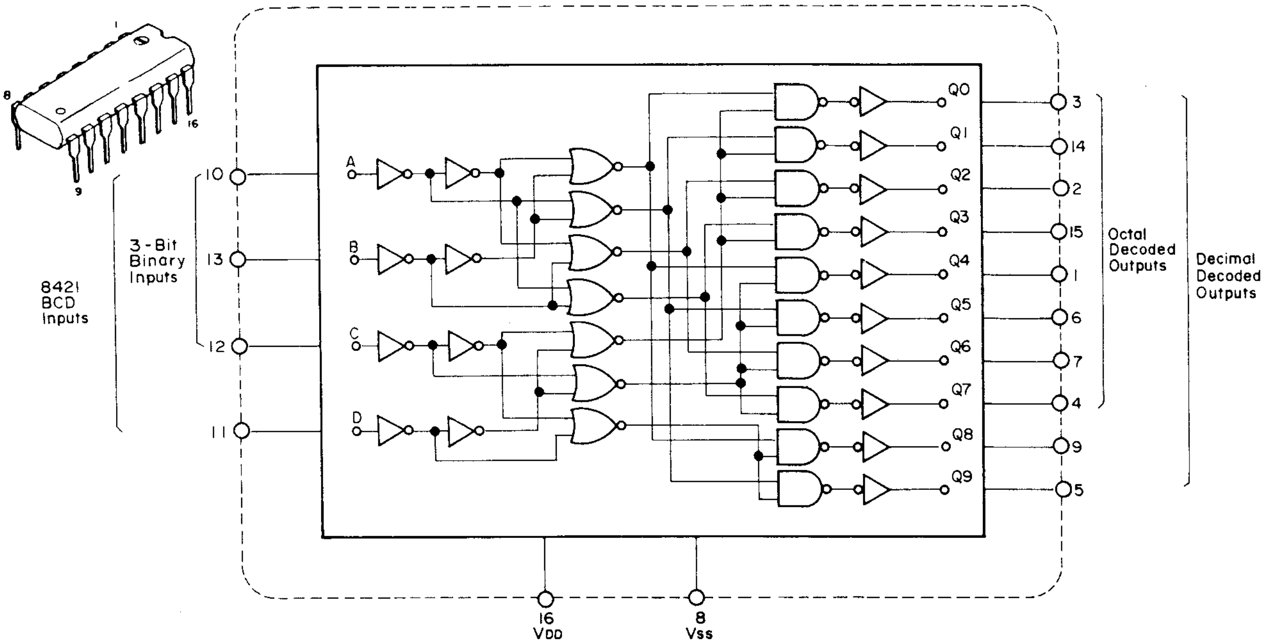

VCC
22
NC
21
RMS IN
20
TIMING
19
CCA IN
18
CAP1
17
CAP2
16
VOUT
15
ON-OFF
14
I TIME
13
ENCODE
12
VCC LINE
CURRENT SOURCE
TIMING CURRENT
RMS
CCA
RMS
CCA
CP AMP
CP AMP
ENCODE /DECODE SWITCHING LOGIC
BIAS
GND LINE
SUB
1
ADJ
2
GND
3
RMS IN
4
TIMING
5
CCA IN
6
CAP1
7
CAP2
8
VOUT
9
ON-OFF
10
N.I.
11
DECODE

NJM2041D: IC1303, 1403, 1404, 1405, 1406, 1408, IC1503, 1901

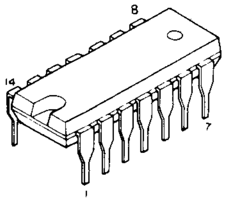


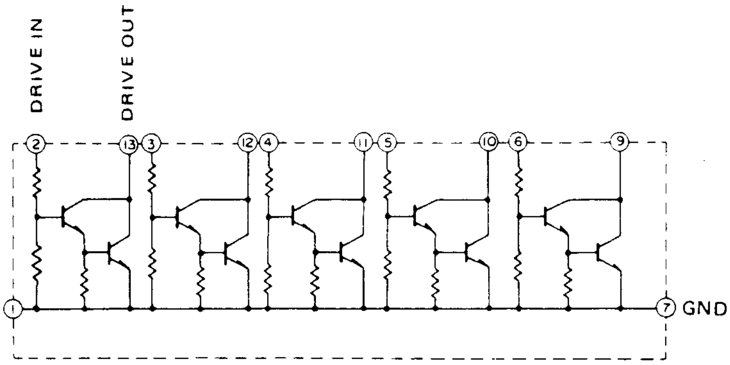

A-OUT
1
A-IN
2
A+IN
3
V-
4
8
V+
7
B-OUT
6
B-IN
5
B+IN
A
B

μPD4028BP: IC3004

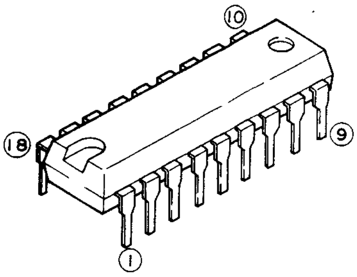

1
8
16
9
A
B
C
D
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
10
13
12
11
3-Bit Binary Inputs
8421 BCD Inputs
3
14
2
15
1
6
7
4
9
5
Octal Decoded Outputs
Decimal Decoded Outputs
16 VDD
8 Vss

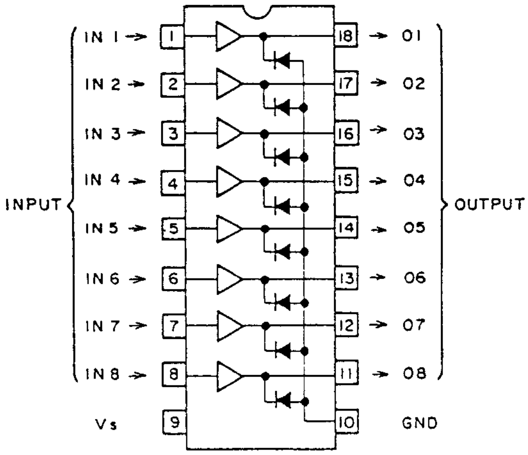
μPA53C: IC3005



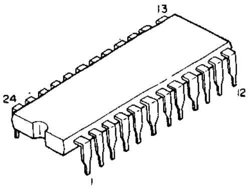

DRIVE IN
DRIVE OUT
2
13
3
12
4
11
5
10
6
9
1
7 GND

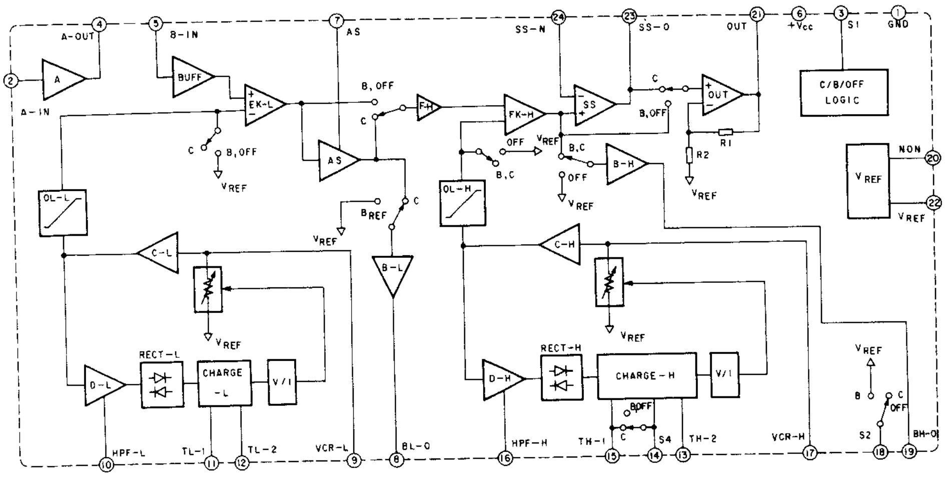
M54563P: IC3006



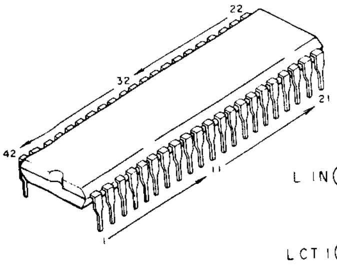

INPUT
IN 1
IN 2
IN 3
IN 4
IN 5
IN 6
IN 7
IN 8
1
2
3
4
5
6
7
8
Vs 9
18
17
16
15
14
13
12
11
10 GND
O1
O2
O3
O4
O5
O6
O7
O8
OUTPUT

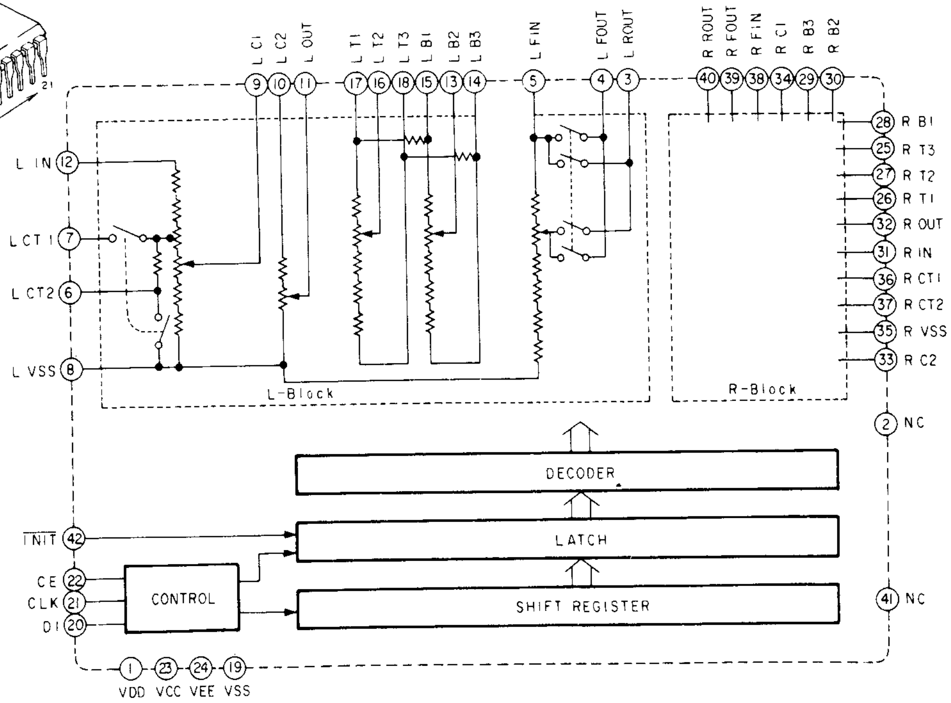
AN7372K: IC1351, 1352



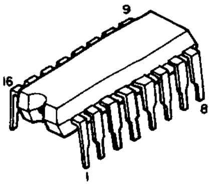

A-OUT
A-IN
A
B-IN
BUFF
EK-L
AS
B, OFF
C
F-H
FK-H
SS-N
SS
SS-O
B, OFF
OUT
+Vcc
S1
GND
C/B/OFF LOGIC
R1
R2
VREF
NON
OL-L
OL-H
C-L
C-H
B-L
B-H
BREF
B, C
OFF
RECT-L
CHARGE -L
V/I
D-L
RECT-H
CHARGE - H
D-H
S4
S2
HPF-L
TL-1
TL-2
VCR-L
BL-O
HPF-H
TH-1
TH-2
VCR-H
BH-O
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

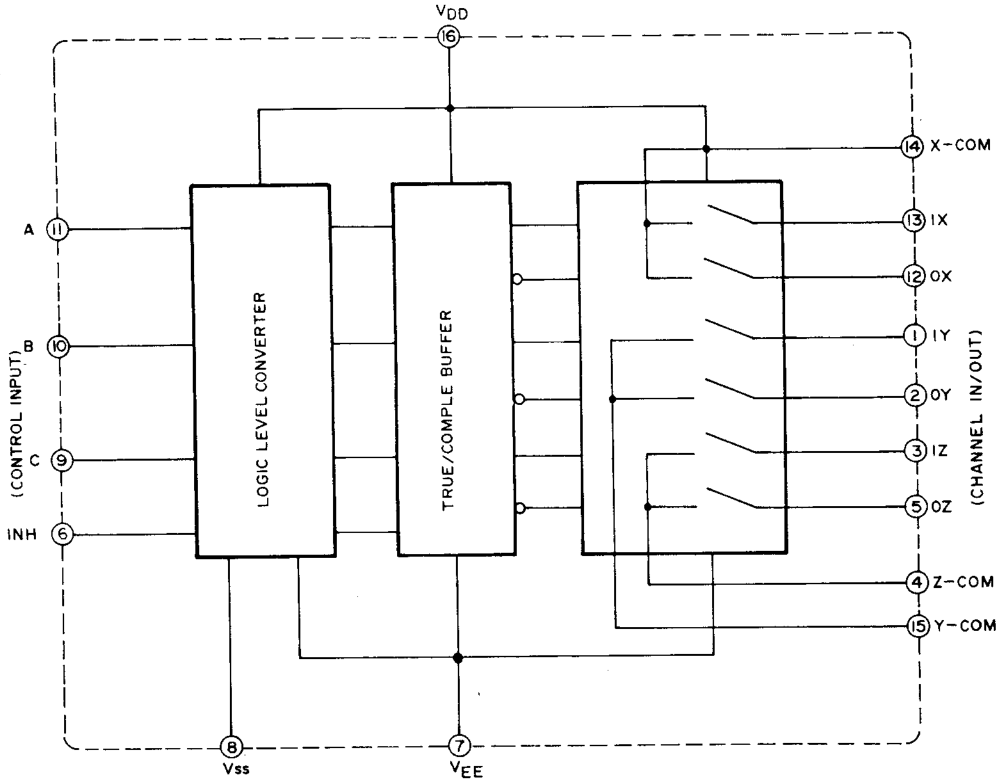
LC7537: IC1401


22
32
21
42
11
1

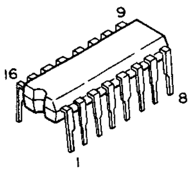

L CI
L C2
L OUT
L T1
L T2
L T3
L B1
L B2
L B3
L FIN
L FOUT
L ROUT
R ROUT
R FOUT
R FIN
R CI
R B3
R B2
L IN
L CT1
L CT2
L VSS
L-Block
R-Block
R B1
R T3
R T2
R T1
R OUT
R IN
R CT1
R CT2
R VSS
R C2
NC
NC
DECODER
LATCH
SHIFT REGISTER
CONTROL
INIT
CE
CLK
DI
VDD
VCC
VEE
VSS

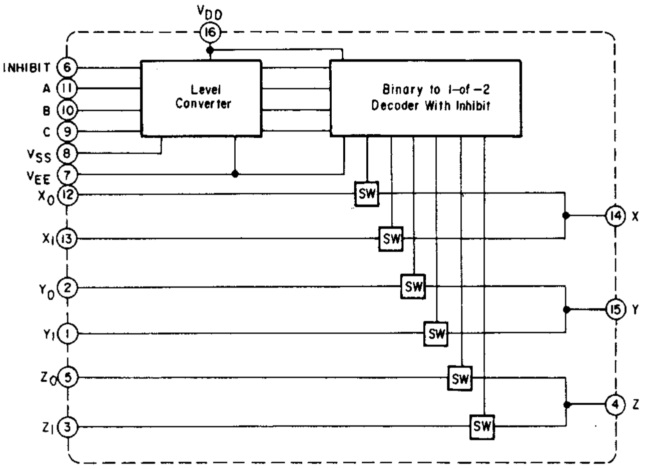
TC4053BP: IC1402



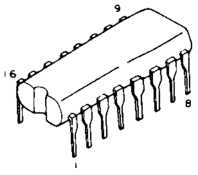

VDD
16
A 11
B 10
C 9
INH 6
(CONTROL INPUT)
LOGIC LEVEL CONVERTER
TRUE/COMPLE BUFFER
14 X-COM
13 IX
12 OX
1 IY
2 OY
3 IZ
5 OZ
4 Z-COM
15 Y-COM
(CHANNEL IN/OUT)
8
Vss
7
VEE

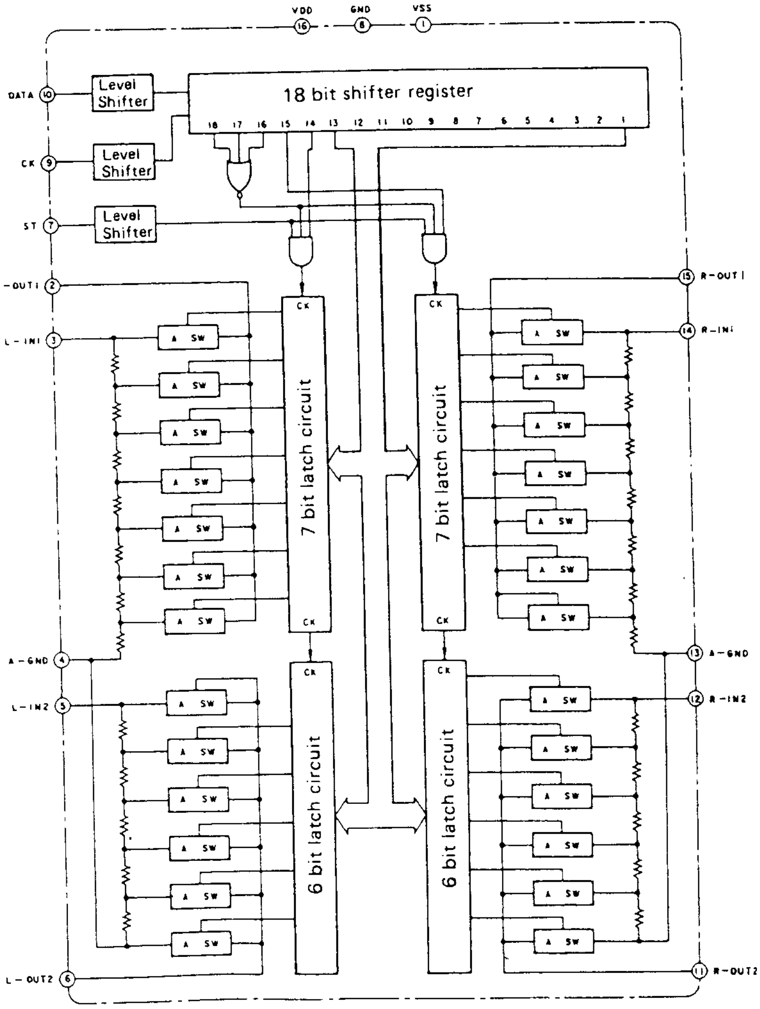
*µ***PD4053BC**: IC1402



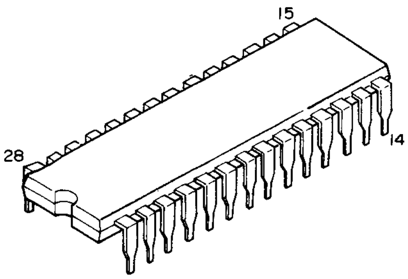

VDD
16
INHIBIT 6
A 11
B 10
C 9
VSS 8
VEE 7
X0 12
X1 13
Y0 2
Y1 1
Z0 5
Z1 3
Level Converter
Binary to 1-of-2 Decoder With Inhibit
SW
SW
SW
SW
SW
SW
14 X
15 Y
4 Z

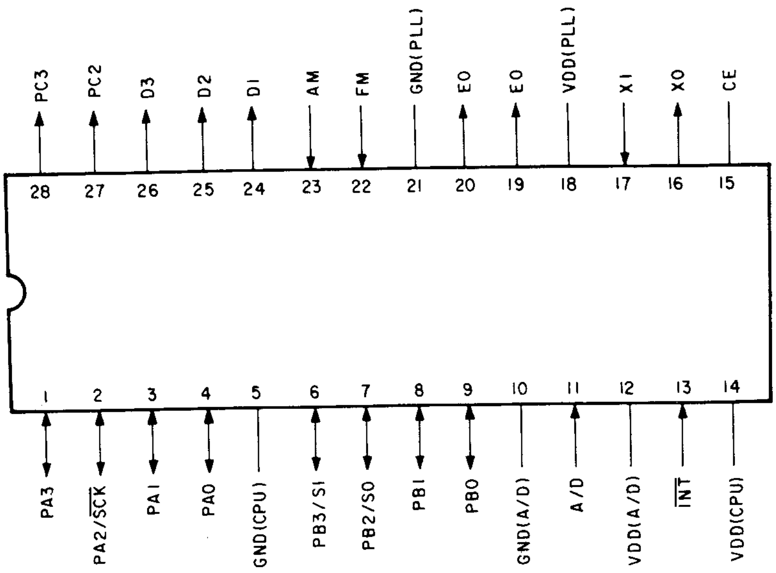
TC9154P: IC1407



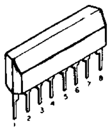

VDD 16
GND 8
VSS 1
DATA 10
CK 9
ST 7
Level Shifter
Level Shifter
Level Shifter
18 bit shifter register
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L-OUT1 2
L-IN1 3
A-GND 4
L-IN2 5
L-OUT2 6
R-OUT1 15
R-IN1 14
A-GND 13
R-IN2 12
R-OUT2 11
CK
7 bit latch circuit
7 bit latch circuit
6 bit latch circuit
6 bit latch circuit
A SW

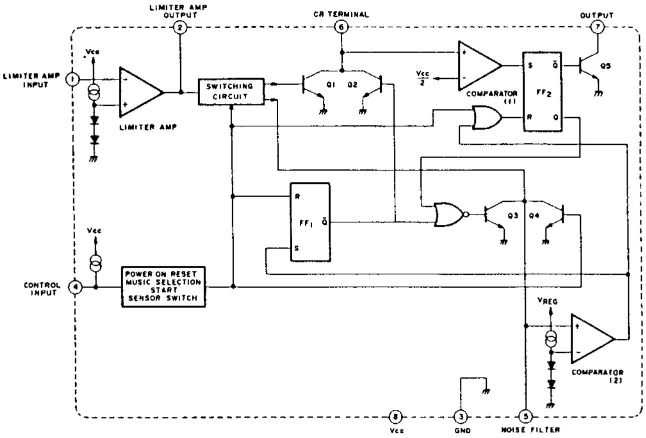
71061F01: IC1601



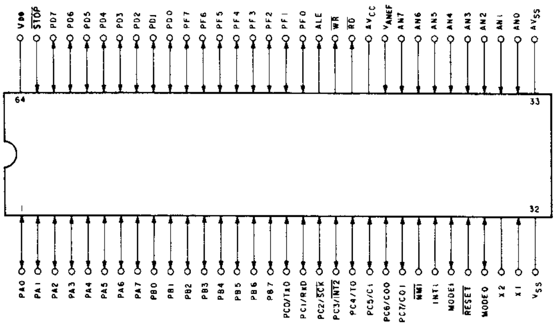

PC3
PC2
D3
D2
DI
AM
FM
GND(PLL)
EO
EO
VDD(PLL)
XI
XO
CE
28 27 26 25 24 23 22 21 20 19 18 17 16 15
1 2 3 4 5 6 7 8 9 10 11 12 13 14
PA3
PA2/SCK
PA1
PA0
GND(CPU)
PB3/SI
PB2/SO
PB1
PB0
GND(A/D)
A/D
VDD(A/D)
INT
VDD(CPU)

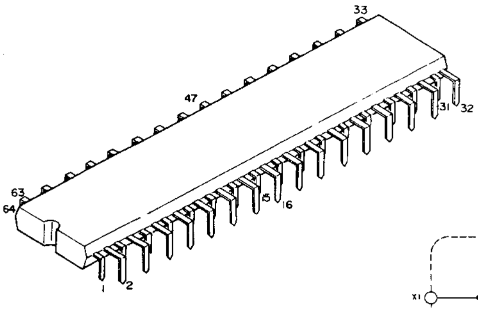
M51143AL: IC1752

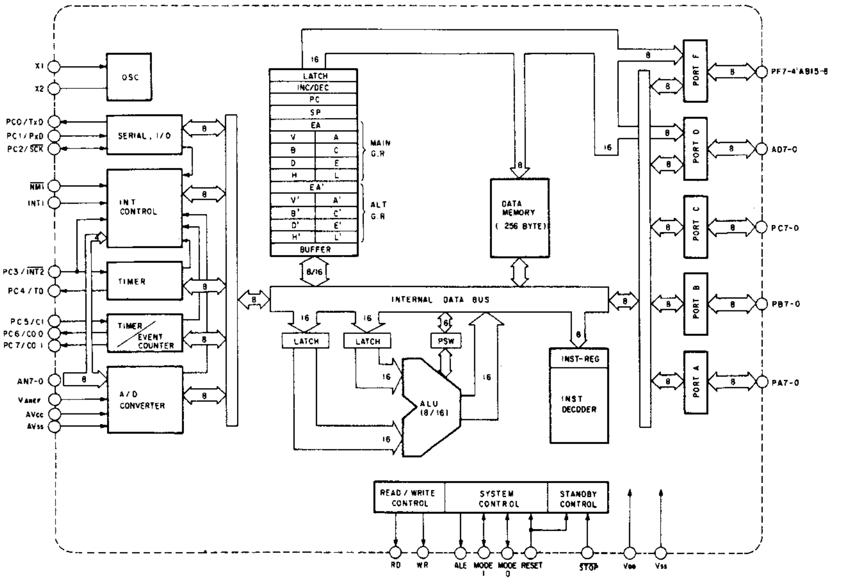



LIMITER AMP OUTPUT
2
CR TERMINAL
6
OUTPUT
7
LIMITER AMP INPUT
1
Vcc
LIMITER AMP
SWITCHING CIRCUIT
Q1
Q2
Vcc/2
COMPARATOR (1)
S
Q̄
R
Q
FF2
Q5
R
FF1
Q̄
S
Q3
Q4
CONTROL INPUT
4
Vcc
POWER ON RESET MUSIC SELECTION START SENSOR SWITCH
VREG
COMPARATOR (2)
8
Vcc
3
GND
5
NOISE FILTER

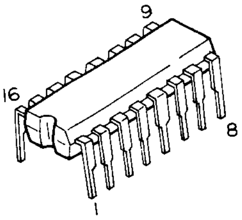
µPD78C10G: IC2001, 2008

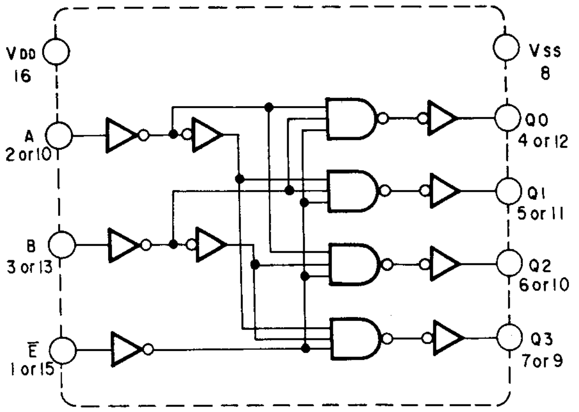

VDD
STOP
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
PF7
PF6
PF5
PF4
PF3
PF2
PF1
PF0
ALE
WR
RD
AVCC
VANEF
AN7
AN6
AN5
AN4
AN3
AN2
AN1
AN0
AVSS
64
33
1
32
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PC0/TxD
PC1/RxD
PC2/SCK
PC3/INT2
PC4/TO
PC5/CI
PC6/CO0
PC7/CO1
NMI
INT1
MODE1
RESET
MODE0
X2
X1
VSS


33
47
31
32
63
64
15
16
1
2

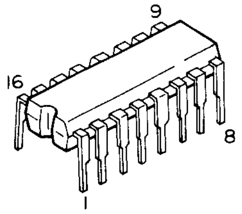

X1
X2
OSC
PC0/TxD
PC1/PxD
PC2/SCK
SERIAL, I/O
NMI
INT1
INT CONTROL
PC3/INT2
PC4/T0
TIMER
PC5/CI
PC6/CO0
PC7/CO1
TIMER/EVENT COUNTER
AN7-0
VANEF
AVcc
AVss
A/D CONVERTER
8
16
LATCH
INC/DEC
PC
SP
EA
V
A
B
C
D
E
H
L
MAIN G.R
EA'
V'
A'
B'
C'
D'
E'
H'
L'
ALT G.R
BUFFER
8/16
DATA MEMORY (256 BYTE)
INTERNAL DATA BUS
LATCH
LATCH
PSW
ALU (8/16)
INST-REG
INST DECODER
PORT F
PORT D
PORT C
PORT B
PORT A
PF7-4'AB15-8
AD7-0
PC7-0
PB7-0
PA7-0
READ / WRITE CONTROL
SYSTEM CONTROL
STANDBY CONTROL
RD
WR
ALE
MODE 1
MODE 0
RESET
STOP
VDD
Vss

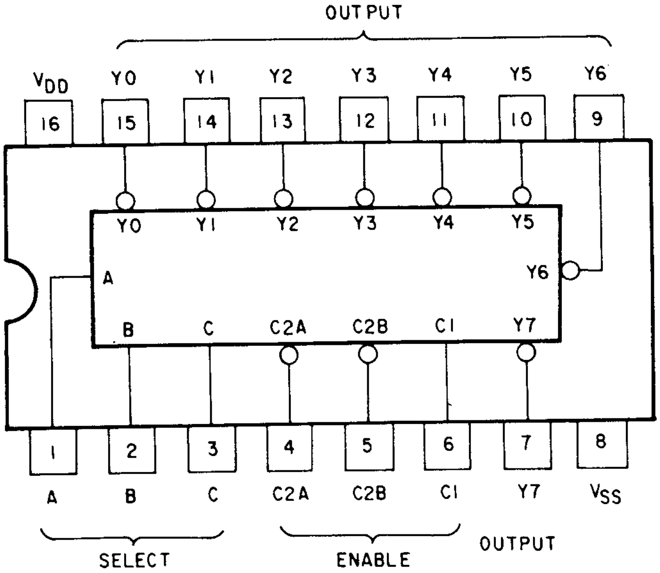
μPD4555BC: IC2002



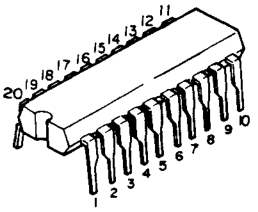

VDD
16
A
2 or 10
B
3 or 13
E̅
1 or 15
Vss
8
Q0
4 or 12
Q1
5 or 11
Q2
6 or 10
Q3
7 or 9

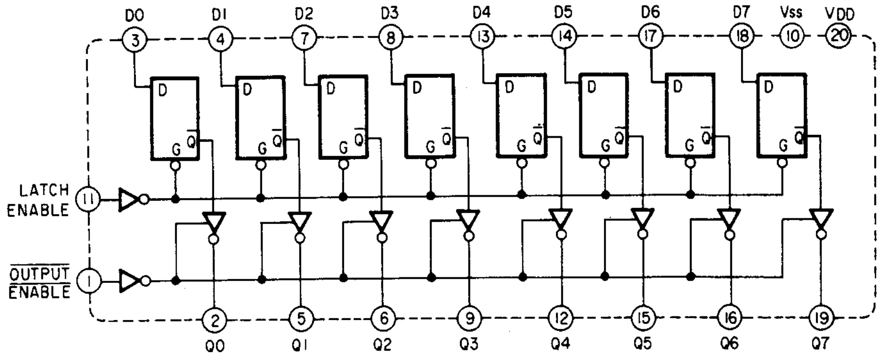
μPD74HC138C: IC2004, 2005



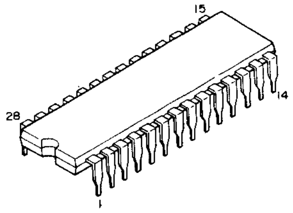

OUTPUT
VDD
Y0
Y1
Y2
Y3
Y4
Y5
Y6
16
15
14
13
12
11
10
9
Y0
Y1
Y2
Y3
Y4
Y5
A
Y6
B
C
C2A
C2B
C1
Y7
1
2
3
4
5
6
7
8
A
B
C
C2A
C2B
C1
Y7
VSS
SELECT
ENABLE
OUTPUT

μPD74HC373C: IC2006, 2009, 3003

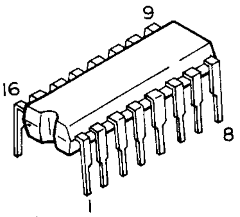

20
19
18
17
16
15
14
13
12
11
1
2
3
4
5
6
7
8
9
10

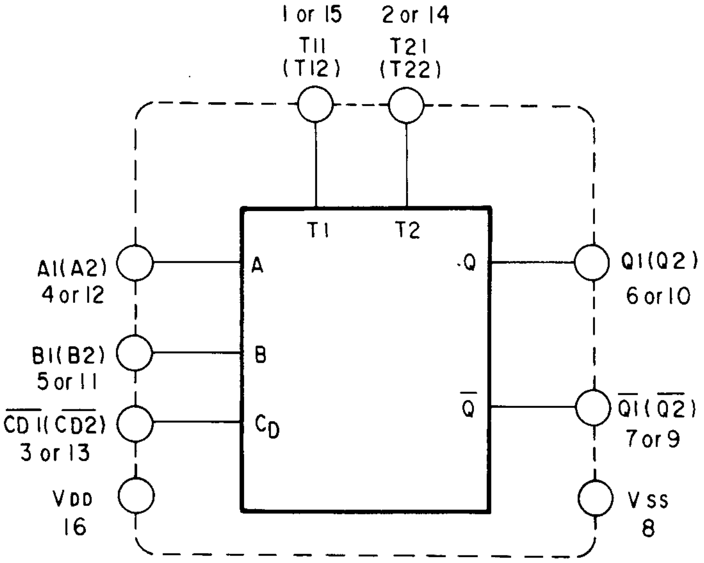

D0
D1
D2
D3
D4
D5
D6
D7
Vss
VDD
3
4
7
8
13
14
17
18
10
20
D
G
Q̄
LATCH ENABLE
11
OUTPUT ENABLE
1
2
5
6
9
12
15
16
19
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7

72267F01: IC2007
72266F01: IC2010
72265F01: IC3002

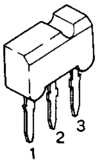


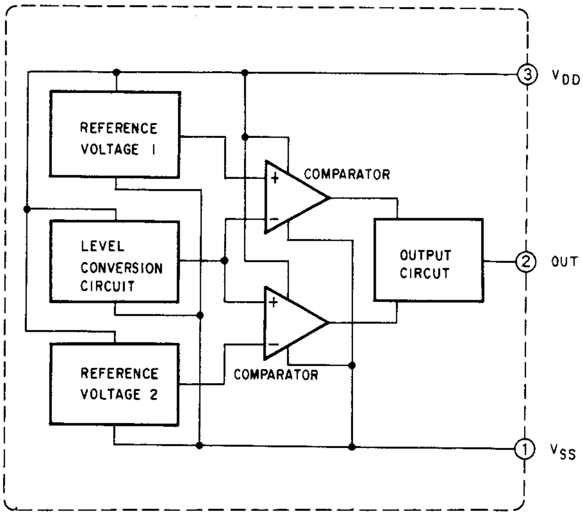
µPD4538BC: IC2011, 2012



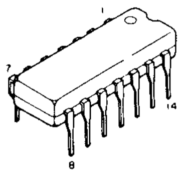

1 or 15
T11
(T12)
2 or 14
T21
(T22)
T1
T2
A1(A2)
4 or 12
A
B1(B2)
5 or 11
B
$\overline{CD1}$($\overline{CD2}$)
3 or 13
C_D
VDD
16
Q
Q1(Q2)
6 or 10
$\overline{Q}$
$\overline{Q1}$($\overline{Q2}$)
7 or 9
VSS
8

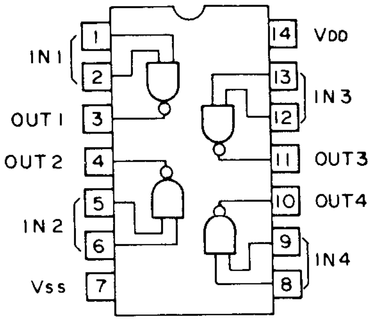
MN1280: IC3007
MN1280P: IC2013



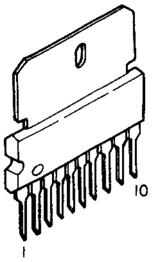

REFERENCE VOLTAGE 1
LEVEL CONVERSION CIRCUIT
REFERENCE VOLTAGE 2
COMPARATOR
COMPARATOR
+
−
+
−
OUTPUT CIRCUT
③ VDD
② OUT
① VSS

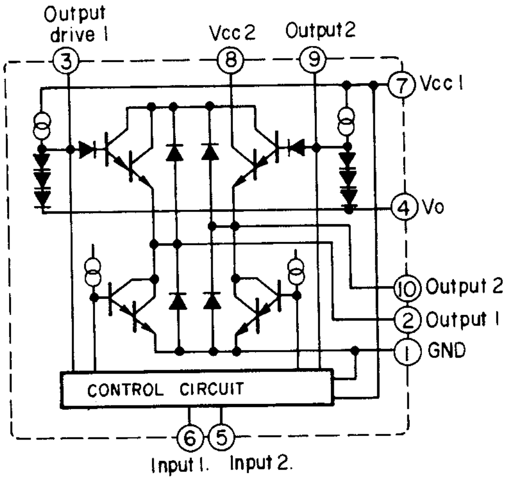
µPD4081BC: IC2014



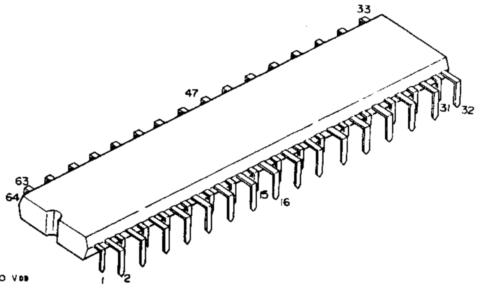

IN 1
OUT 1
OUT 2
IN 2
Vss
1
2
3
4
5
6
7
14
13
12
11
10
9
8
VDD
IN 3
OUT3
OUT4
IN4

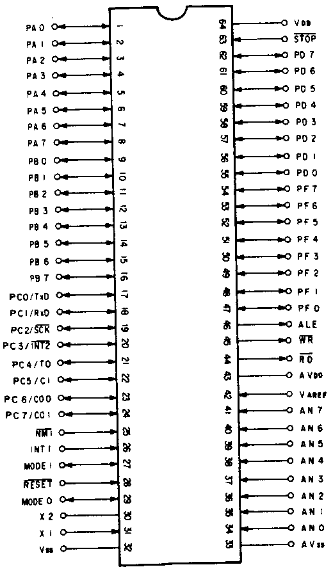
BA6229: IC2501, 2502, 2503

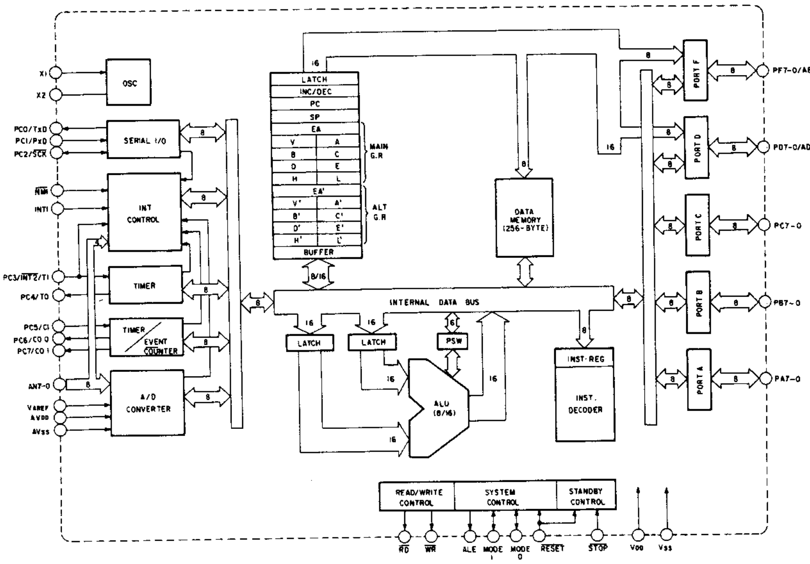



Output drive I
Vcc 2
Output 2
3
8
9
7 Vcc I
4 Vo
10 Output 2
2 Output I
1 GND
CONTROL CIRCUIT
6
5
Input I.
Input 2.

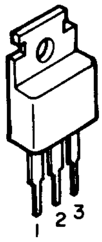
µPD7810G: IC3001


33
47
31
32
63
64
15
16
1
2

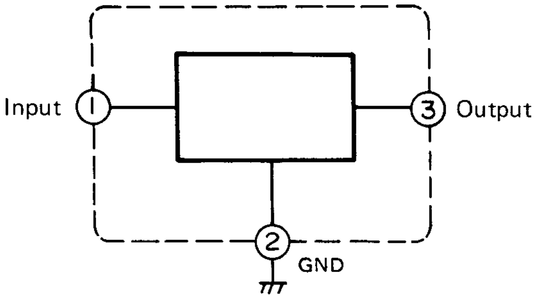

PA 0
PA 1
PA 2
PA 3
PA 4
PA 5
PA 6
PA 7
PB 0
PB 1
PB 2
PB 3
PB 4
PB 5
PB 6
PB 7
PC0/TxD
PC1/RxD
PC2/SCK
PC3/INT2
PC4/TO
PC5/CI
PC 6/CO0
PC 7/CO1
NMI
INT I
MODE I
RESET
MODE 0
X 2
X I
Vss
VDD
STOP
PD 7
PD 6
PD 5
PD 4
PD 3
PD 2
PD 1
PD 0
PF 7
PF 6
PF 5
PF 4
PF 3
PF 2
PF 1
PF 0
ALE
WR
RD
A VDD
V AREF
AN 7
AN 6
AN 5
AN 4
AN 3
AN 2
AN 1
AN 0
A Vss


X1
X2
OSC
PC0/TxD
PC1/RxD
PC2/SCK
SERIAL I/O
NMI
INT1
INT CONTROL
PC3/INT2/TI
PC4/TO
TIMER
PC5/CI
PC6/CO 0
PC7/CO 1
TIMER/EVENT COUNTER
AN7-0
VAREF
AVDD
AVss
A/D CONVERTER
LATCH
INC/DEC
PC
SP
EA
V
A
B
C
D
E
H
L
MAIN G.R
EA'
V'
A'
B'
C'
D'
E'
H'
L'
ALT G.R
BUFFER
8/16
DATA MEMORY (256-BYTE)
INTERNAL DATA BUS
LATCH
LATCH
PSW
ALU (8/16)
INST·REG
INST. DECODER
READ/WRITE CONTROL
SYSTEM CONTROL
STANDBY CONTROL
RD
WR
ALE
MODE 1
MODE 0
RESET
STOP
VDD
Vss
PORT F
PORT D
PORT C
PORT B
PORT A
PF7-0/AB15-8
PD7-0/AD7-0
PC7-0
PB7-0
PA7-0
8
16

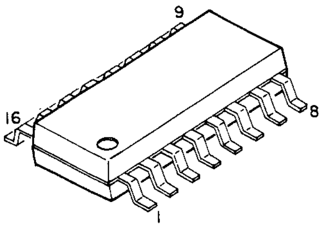
μPC78M05H: IC3009

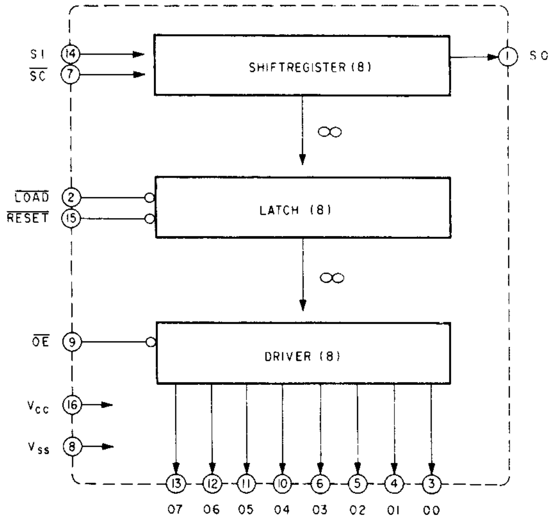


1: INPUT
2: OUTPUT
3: GND

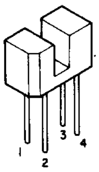

Input ①
③ Output
② GND

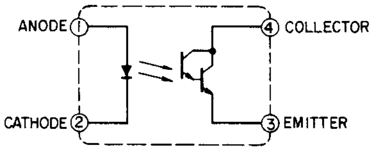
MB88307: IC3101



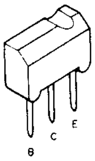

SI ⑭
SC ⑦
SHIFTREGISTER (8)
① SO
LOAD ②
RESET ⑮
LATCH (8)
OE ⑨
DRIVER (8)
Vcc ⑯
Vss ⑧
⑬ O7
⑫ O6
⑪ O5
⑩ O4
⑥ O3
⑤ O2
④ O1
③ O0

PS4010: IC4010

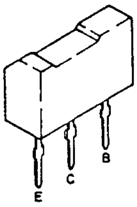



ANODE ①
CATHODE ②
④ COLLECTOR
③ EMITTER

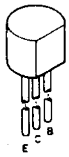
2SD973A: Q701
2SD636: Q702, 704, 1851, 2801, 3003, Q3005, 3007
2SD661: Q1604
2SD638: Q2020, 3004, 3006, 3008



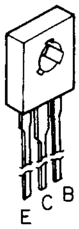
2SB911M: Q703, 705
2SD1228: Q3004, 3006, 3008



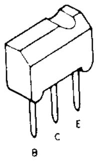
2SC1815: Q1001, 1201, 1202, 1250, 1251, 1252, 1302,
Q1303, 1351, 1353, 1390, 1391, 1401, 1507,
Q1601, 1602, 1605, 1606, 1608, 1610, 1750,
Q1751, 1752, 1801, 1904, 1905, 2005, 2006,
Q2007, 2008, 2009, 2010, 2011, 2012, 2015,
Q2016, 2018, 2025, 2203
2SA495: Q1301, 1352, 1508, 1509, 2017, 2501, 2502
2SD1302: Q1501, 1502, 1503, 1504, 1505, 1506
2SC2120: Q1607, 1609, 1802, 1804, 1903
2SC1741: Q1861, 1863
2SA854: Q1862, 1864
2SA608: Q1901, 1902

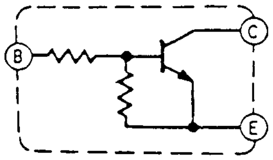


2SC1368: Q2021

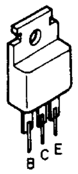


UN1213: Q2201, 3009, 3010, 3011, 3013, 3014,
Q3015, 3016
UN1212: Q3009, 3010, 3011, 3014, 3015, 3016

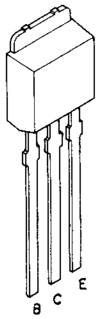




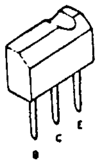
2SD880: Q2202

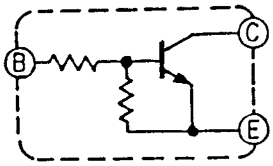


2SC3074 : Q2802

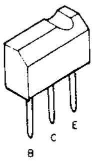


DTC114: Q1203, 1603
DTC144: Q3013
DTC124: Q3009, 3010, 3011, 3014, 3015, 3016

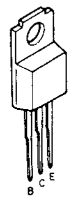




2SC1545: Q1603
2SC2021M: Q2001, 2002, 2014, 2019, 2022, 2023,
Q2024, 2026, 2801, 3001
Q3003, 3005, 3007
2SD937M: Q2003, 2004, 2013, 3002
2SA874: Q3012



2SB941: Q1611



UN1215: Q1612